

SERIES
6

Plasma TV

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register
your product at

www.samsung.com/register

Model _____ Serial No. _____



User Instructions

■ Screen Image retention

Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

■ Height

The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.

■ Heat on the top of the PDP TV

The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

■ The product is making a 'cracking' noise.

A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

■ Cell Defects

The PDP uses a panel consisting of 2,360,000(HD-level) to 6,221,000(FHD-level)pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

■ Avoid operating the TV at temperatures below 5°C(41°F)

■ A still image displayed too long may cause permanent damage to the PDP Panel.



Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

■ Afterimage on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

■ Warranty

- Warranty does not cover any damage caused by image retention.
- Burn-in is not covered by the warranty.

■ Installation

Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.



Without producing harmful VOC (Volatile Organic Compounds), Samsung's Eco-friendly "Crystal Design" expresses colour gradation thanks to our dual injection technology.

Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre. (See back cover for more informations.)

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Symbol



Press



Note



One-Touch Button



TOOLS

Connecting and Preparing Your TV

Checking Parts



Owner's Instructions



Remote Control/
AAA Batteries (2ea)



Power Cord



Warranty Card/
Safety Guide Manual
(Not available in all locations)



Cloth-Clean



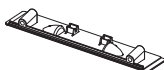
Program CD



Holder-Ring (4ea)
(Refer to page 64)



Cover-Bottom / Screws (2ea)
PS58B680/PS63B680 only



Cover-Bottom
PS50B650 only



Screw (4ea)
(PS50B650 only)



Holder-Wire
Cable



Ferrite Core for
Power Cord



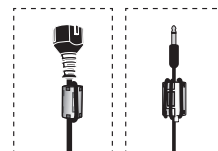
Ferrite Core for
Headphone

(Not available in all locations)

☒ Ferrite Core (Power Cord, Headphone)

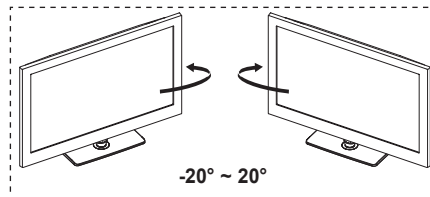
The ferrite cores are used to shield the cables from interference.

When connecting a cable, open the ferrite core and clip it around the cable near the plug.



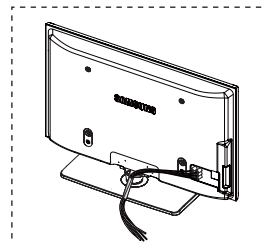
Using the Stand-Base

- ☒ Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- ☒ The PDP can rotate 20 degrees in right and left directions.



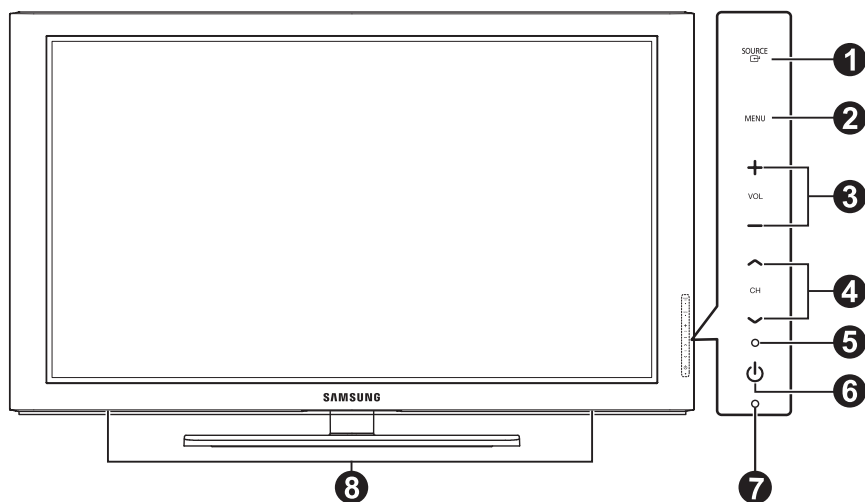
Assembling the Cables

Enclose the cables in the Holder-Wire Cable so that the cables are not visible through the transparent stand.



Viewing the Control Panel

PS50B650



Front Panel buttons

Touch each button to operate.

☑ The product colour and shape may vary depending on the model.

1 SOURCE

Toggles between all the available input sources (TV, AV1, AV2, Component1, Component2, PC, HDMI1, HDMI2/DVI, HDMI3, HDMI4).

☑ In the on-screen menu, use this button as you would use the **ENTER**  button on the remote control.

2 MENU

Press to see an on-screen menu of your TV's features.

3 + VOL -

Press to increase or decrease the volume. In the on-screen menu, use the + VOL - buttons as you would use the ◀ and ▶ buttons on the remote control.

4 ^ CH v

Press to change channels. In the on-screen menu, use the ^ CH v buttons as you would use the ▲ and ▼ buttons on the remote control.

5 POWER INDICATOR

Lights up when the power is on.

6 (POWER)

Press to turn the TV on and off.

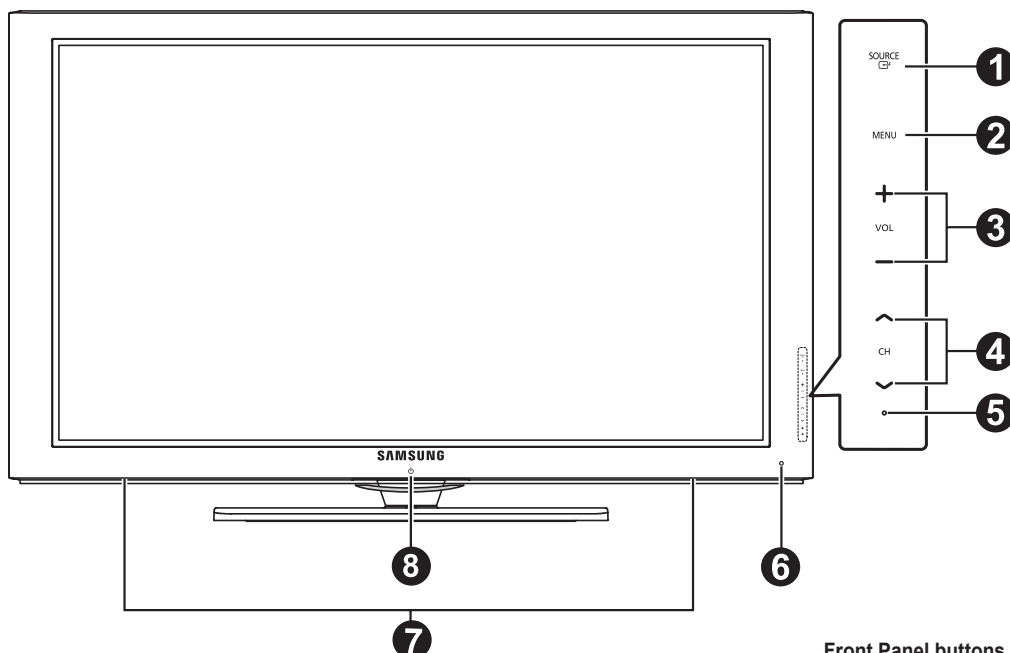
7 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

8 SPEAKERS

Continued...

PS58B680/PS63B680



☑ The product colour and shape may vary depending on the model.

Front Panel buttons

Touch each button to operate.

1 SOURCE

Toggles between all the available input sources (TV, AV1, AV2, Component1, Component2, PC, HDMI1, HDMI2/DVI, HDMI3, HDMI4, USB, DLNA).

☑ In the on-screen menu, use this button as you would use the **ENTER**  button on the remote control.

2 MENU

Press to see an on-screen menu of your TV's features.

3 + VOL -

Press to increase or decrease the volume. In the on-screen menu, use the **+ VOL -** buttons as you would use the ◀ and ▶ buttons on the remote control.

4 ^ CH v

Press to change channels. In the on-screen menu, use the ^ CH v buttons as you would use the ▲ and ▼ buttons on the remote control.

5 POWER INDICATOR

Blinks and turns off when the power is on and lights up in stand-by mode.

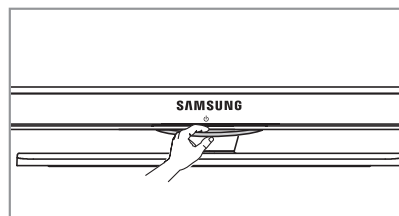
6 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

7 SPEAKERS

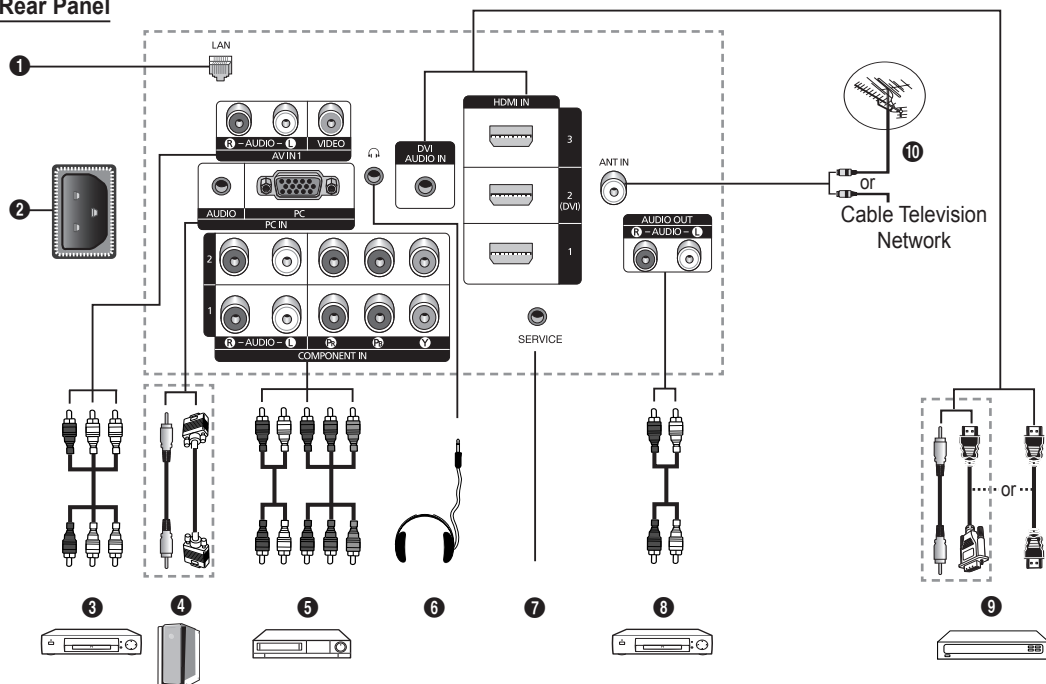
8 (POWER)

Touch the silver sensor below the (⏻) mark to turn the TV on and off.



Viewing the Connection Panel

TV Rear Panel



- ☑ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
- ☑ When connecting an external device, match the colour of the connection terminal to the cable.

1 LAN

Connect a LAN cable to this port to connect to the Network (SAMSUNG's Internet@TV Service).

2 POWER IN

Connect the supplied power cord.

3 AV IN 1 (VIDEO / AUDIO R/L)

Video and audio inputs for external devices, such as a camcorder or VCR.

4 PC IN (PC) / AUDIO

Connect to the video and audio output jack on your PC.

5 COMPONENT IN 1, 2

Audio (AUDIO R/L) and video (Y/Pb/Pr) inputs for Component.

6 HEADPHONES JACK

You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.

- ☑ Prolonged use of headphones at a high volume may damage your hearing

7 SERVICE

Connector for service.

8 AUDIO OUT (AUDIO R/L)

Connect RCA audio signals from the TV to an external source, such as Audio equipment.

9 HDMI IN 1, 2, 3

- No additional Audio connection is needed for an HDMI to HDMI connection.
- When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.

☑ What is HDMI?

- "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

DVI AUDIO IN

DVI audio outputs for external devices.

10 ANT IN

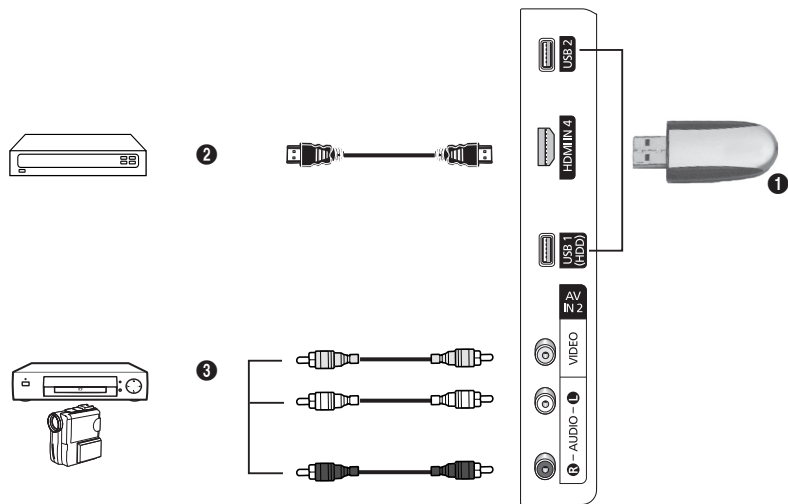
75Ω Coaxial connector for Aerial/Cable Network.

Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

Continued...

TV Side Panel



☑ The product colour and shape may vary depending on the model.

1 USB 1(HDD), USB 2

Connect a USB mass storage device to view photo files (JPEG), play audio files (MP3) and movie files. You can connect to SAMSUNG's network wirelessly.

2 HDMI IN 4

Connect to the HDMI jack of a device with HDMI output.

3 AV IN 2

Video and audio inputs for external devices, such as a camcorder or VCR.

Remote Control

You can use the remote control up to a distance of about 23 feet from the TV.

- ☑ The performance of the remote control may be affected by bright light.

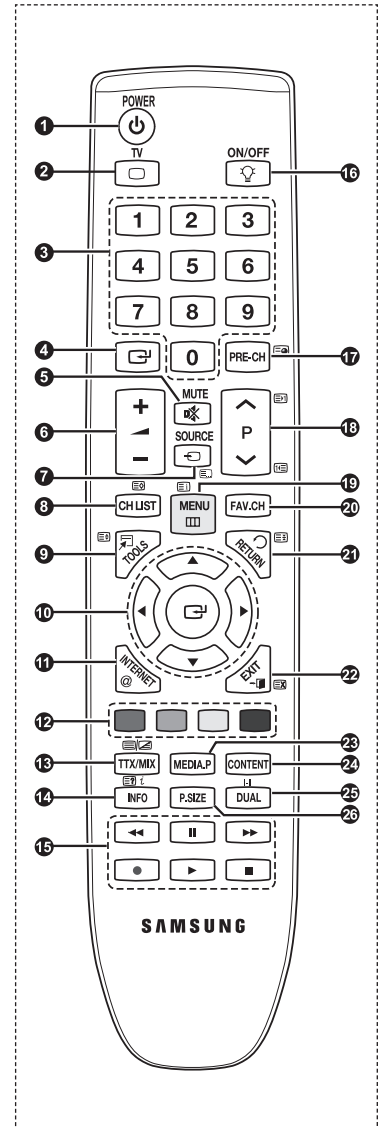
- 1 POWER button
(turns the TV on and off)
- 2 Selects the TV mode directly.
- 3 Number buttons for direct channel access
- 4 Use to select on-screen menu items
- 5 Temporary sound switch-off
- 6 Volume increase
 Volume decrease
- 7 Available source selection
- 8 Channel control button
- 9 Use to quickly select frequently used functions.
- 10 Control the cursor in the menu
- 11 This function enables you to view Internet@TV.
- 12 Use these buttons in the Media Play, etc.
- 14 Use to see information on the current broadcast
- 15 Use these buttons in the Anynet+ and Media Play.
- 16 Press to backlight the buttons on the remote. This function is convenient for using at night or when the room is dark. (Using the remote control with the ON/OFF () light button set to On will reduce the battery usage time.)
- 17 Previous channel
- 18 Next channel
 Previous channel
- 19 Displays the main on-screen menu
- 20 Press to switch to your favorite channels.
- 21 Returns to the previous menu
- 22 Exit the on-screen menu
- 23 This function enables you to view and play photo, music and movie files from an external device.
(Refer to pages 28 (Photo), 31(Music), and 33(Movie))

- 24 This function enables you to view **Content Library.**

- 25 Sound mode selection
- 26 Picture size selection

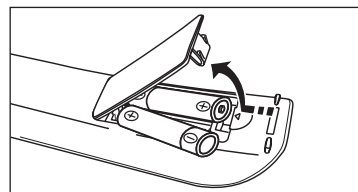
Teletext Functions

- 2 Exit from the teletext display (depending on the model)
- 7 Teletext mode selection (LIST/FLOF)
- 8 Teletext store
- 9 Teletext size
- 12 Fastext topic selection
- 13 Teletext display/mix both teletext information and the normal broadcast
- 14 Teletext reveal
- 17 Teletext sub page
- 18 P :Teletext next page
P :Teletext previous page
- 19 Teletext index
- 21 Teletext hold
- 22 Teletext cancel



Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.
 2. Install two AAA size batteries.
 - ☑ Make sure to match the '+' and '-' ends of the batteries with the diagram inside the compartment.
 - ☑ Using the remote control with the ON/OFF () light button set to On will reduce the battery usage time.
 3. Close the cover.
 - ☑ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.
-
- ☑ If the remote control doesn't work, check the following
1. Is the TV power on?
 2. Are the plus and minus ends of the batteries reversed?
 3. Are the batteries drained?
 4. Is there a power outage or is the power cord unplugged?
 5. Is there a special fluorescent light or neon sign nearby?



Using the Remote Control Backlight Buttons

Use this feature in dark surroundings and when you are unable to see the remote control buttons clearly.

1. Press the **ON/OFF** () light button
 - ☑ When **ON**, the button backlight is turned on for a moment.
 - ☑ Pressing a remote control button when the remote control is on turns the button backlight on for a moment.

Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
 - ☑ The standby indicator lights up on your set.
2. Press the **POWER** () button on your set.
 - ☑ You also can press the **POWER** () button or the **TV** button on the remote control to turn the TV on. The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up / down ( / ) button on the remote control or **▲ CH ▼** button on your set.
 - ☑ When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER** () button again.

Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

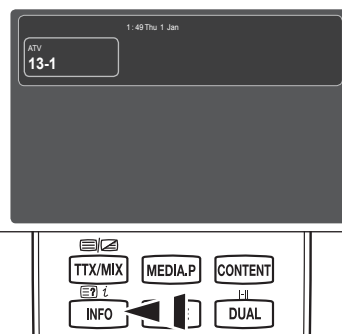
1. Press the **POWER** () button on the remote control.
 - ☑ The screen is turned off and a red standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER** (), numeric buttons (0~9), **TV** button or channel up / down ( / ) button again.
 - ☑ Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

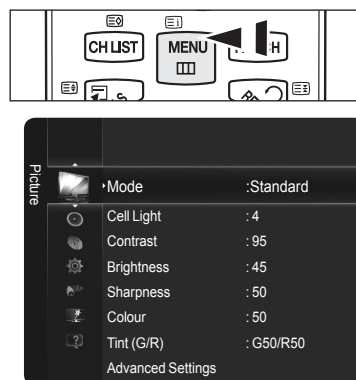
1. Press the **INFO** button on the remote control. The TV will display the channel, the type of sound, and the status of certain picture and sound settings.

- ☒ Press the **INFO** button once more or wait approximately 10 seconds and it disappears automatically.



Viewing the Menus

1. With the power on, press the **MENU** button. The main menu appears on the screen. The menu's left side has icons: **Picture**, **Sound**, **Channel**, **Setup**, **Input**, **Application**, **Support**.
 2. Press the **▲** or **▼** button to select one of the icons. Then press the **ENTER** button to access the icon's sub-menu.
 3. Press the **EXIT** button to exit.
- ☒ The on-screen menus disappear from the screen after about one minute.

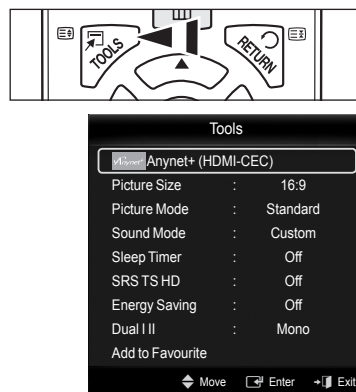


Using the TOOLS Button

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The **Tools** menu changes depending on which external input mode you are viewing.

1. Press the **TOOLS** button. The **Tools** menu will appear.
2. Press the **▲** or **▼** button to select a menu, then press the **ENTER** button.
3. Press the **▲** / **▼** / **◀** / **▶** / **ENTER** buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.

- Anynet+ (HDMI-CEC), see page 59
- Picture Size, see page 17
- Picture Mode, see page 16
- Sound Mode, see page 21
- Sleep Timer, see page 24
- SRS TS HD, see page 21
- Energy Saving, see page 23
- Dual I II, see page 22
- Add to Favourite (or Delete from Favourite), see page 14
- PIP, see page 19
- Auto Adjustment, see page 19



Plug & Play Feature

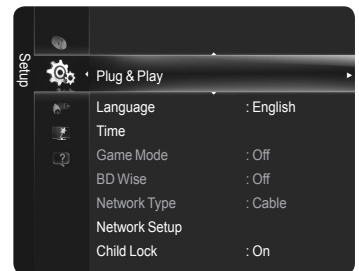
When the TV is initially powered on, basic settings proceed automatically and subsequently.

- ☑ The Screen Saver is activated if there is no remote control key input for longer than 1 minute while Plug & Play is running.
 - ☑ The Screen Saver is activated if there is no operating signal for longer than 15 minutes.
1. Press the **POWER** button on the remote control. **Language** menu is displayed.
 2. Press the **ENTER** button. Select the appropriate language by pressing the **▲** or **▼** button. Press the **ENTER** button. The message **Select 'Home Use' when installing this TV in your home.** is displayed.
 3. Press the **◀** or **▶** button to select **Store Demo** or **Home Use**, then the **ENTER** button.
 - ☑ We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
 - ☑ **Store Demo** mode is only intended for use in retail environments.
 - ☑ If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
 4. Make sure that the antenna is connected to the TV. Press the **ENTER** button. **Area** menu is displayed.
 5. Press the **ENTER** button. Select your country or area by pressing the **▲** or **▼** button, then press the **ENTER** button. **Auto Store** menu is displayed.
 - ☑ To stop the search before it has finished, press the **ENTER** button with **Stop** selected.
 6. The channel search will start and end automatically. After all the available channels are stored, the message **Set current date and time** is displayed. Press the **ENTER** button.
 7. Press the **◀** or **▶** button to select **Day**, **Month**, **Year**, **Hour**, or **Minute**. Set these by pressing the **▲** or **▼** button.
 - ☑ You can set the **Day**, **Month**, **Year**, **Hour**, and **Minute** directly by pressing the numeric buttons on the remote control.
 8. The brief instruction on **How to get the best performance from your new HDTV** is displayed. Press the **ENTER** button.
 - ☑ You can change previous or next page by pressing the **◀** or **▶** button.
 - ☑ This menu is available **HD Connection Guide** in the **Support** menu.
 9. The message **Enjoy your TV.** is displayed.
 - ☑ If you want to view the TV immediately, select the **Watch TV**.
 - ☑ If you want to view the **See Product Guide**, press the **ENTER** button.



If you want to reset this feature...

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
2. Press the **ENTER** button again to select **Plug & Play**.
3. Enter your 4 digit PIN number. The default PIN number of a new TV set is '0-0-0-0'.
 - ☑ If you want to change PIN number, refer to page 23.
 - ☑ The **Plug & Play** feature is only available in the **TV** mode.



Channel Control

Storing Channels

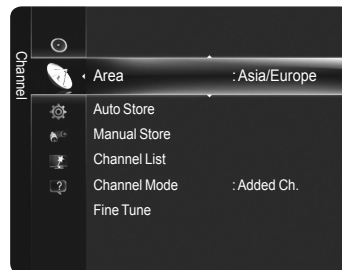
❑ Area

You can change the desired area.

❑ Auto Store

Scans for all channels with active broadcast stations (and availability depends on your country) and stores them in the TV's memory.

- ☑ If you want to stop **Auto Store**, press the **ENTER** button.
The **Stop Auto Store?** message will be displayed.
Select **Yes** by pressing the ◀ or ▶ button, then press the **ENTER** button.



❑ Manual Store

Scans for a channel manually and stores it in the TV's memory.

- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.
- **Colour System** → **Auto / PAL / SECAM / NTSC4.43 / NTSC 3.58**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System** → **BG / DK / I / M**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ▶ button, then press the ▲, ▼ or number (0~9) buttons to select the required number.
 - ☑ You can also select the channel number directly by pressing the number (0~9) buttons.
 - ☑ If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** button.
- ☑ **Channel mode**
 - **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
 - **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

❑ Channel Mode

When the press the **P** (▲) / (▼) button, channels will be switched within the selected channel list.

- **Added Ch.:** Channels will be switched within the memorized channel list.
- **Favourite Ch.:** Channels will be switched within the favourite channel list.

❑ Fine Tune

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

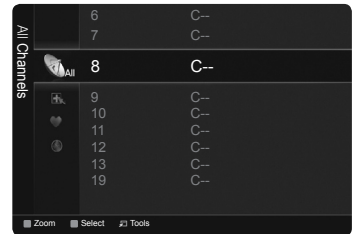
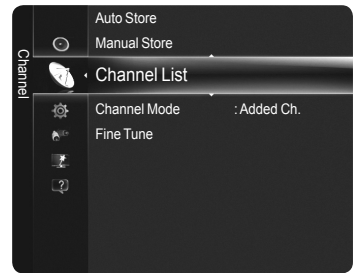
- ☑ Fine tuned channels that have been saved are marked with an asterisk *.
- ☑ If you do not store the fine-tuned channel in memory, adjustments are not saved.
- ☑ To reset the fine-tuning, select **Reset** by pressing the ▼ button and then press the **ENTER** button.

Managing Channels

Channel List

Using this menu, you can Add / Delete or set Favourite channels and use the programme guide for digital broadcasts.

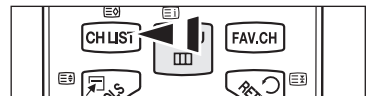
- ☑ Select a channel in the **All Channels**, **Added Channels**, **Favourites**, or **Programmed** screen by pressing the ▲ / ▼ buttons, and pressing the **ENTER** button. Then you can watch the selected channel.
 - **All Channels**: Shows all currently available channels.
 - **Added Channels**: Shows all added channels.
 - **Favourites**: Shows all favourite channels.
 - **Programmed**: Shows all current reserved programmes.
- ☑ **Using the Colour buttons with the Channel List**
 - **Green (Zoom)**: Enlarges or shrinks a channel number.
 - **Yellow (Select)**: Selects multiple channel lists.
 - **TOOLS (Tools)**: Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Lock** (or **Unlock**), **Timer Viewing**, **Edit Channel Name**, **Sort**, **Select All**, **Deselect All**, or **Auto Store** menu.
(The Options menus may differ depending on the situation.)



Channel Status Display Icons

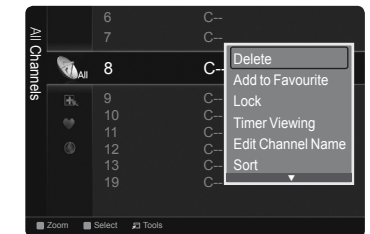
♥	A channel set as a Favourite.	✓	A channel selected by pressing the yellow button.
🔒	A locked channel.	🕒	A reserved programme

- ☑ Press the **CH LIST** button on the remote control to bring up the channel lists.



Channel List Tools Menu (in All Channels / Added Channels / Favourites)

- ☑ Press the **TOOLS** button to use the tools menu.
- ☑ Option menu items may differ depending on the channel status.



Add / Delete

You can delete or add a channel to display the channels you want.

- ☑ All deleted channels will be shown on **All Channels** menu.
- ☑ A gray-coloured channel indicates the channel has been deleted.
- ☑ The **Add** menu only appears for deleted channels.
- ☑ You can also delete a channel to the **Added Channels** or **Favourite** menu in the same manner.

Add to Favourite / Delete from Favourite

You can set channels you watch frequently as favourites.

- ☑ Press the **TOOLS** button to display **Tools** menu.
You can also add the favourite channel by selecting **Tools** → **Add to Favourite** (or **Delete from Favourite**).

- ☑ The ♥ symbol will be displayed and the channel will be set as a favourite.
- ☑ All favourite channels will be shown on **Favourites** menu.
- ☑ To select the Favourite channels you have set up, press the **FAV.CH** button on the remote control.



Lock / Unlock

You can lock a channel so that the channel cannot be selected and viewed. This function is available only when the **Child Lock** is set to **On**. (see page 23)

- ☑ The PIN number input screen appears. Enter your 4 digit PIN number.
- ☑ The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN, by selecting **Change PIN** from the menu.
- ☑ The 🔒 symbol will be displayed and the channel will be locked.

Continued...

■ Timer Viewing

If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme set the current time first. (See page 15)

- ☑ Only memorized channels can be reserved.
- ☑ You can set the Channel, Date, or Start Time directly by pressing the number buttons on the remote control.
- ☑ Reserving a programme will be shown on **Programmed** menu.

■ Edit Channel Name

Channels can be labeled so that their call letters appear whenever the channel is selected.

- ☑ The names of digital broadcasting channels are automatically assigned and cannot be labeled.

■ Sort

This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

■ Select All / Deselect All

- **Select All:** You can select all the channels in the channel list.
- **Deselect All:** You can deselect all the selected channels in the channel list.
- ☑ You can perform the **Add/Delete**, **Add to Favourite/Delete from Favourite**, or **Lock/Unlock** function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time.
- ☑ The ✓ mark appears to the left of the selected channels.
- ☑ You can only select **Deselect All** when there is a selected channel.

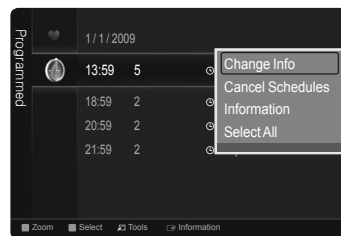
■ Auto Store

- ☑ For further details on setting up options, refer to page 13.
- ☑ If a channel is locked using the **Child Lock** function, the PIN input window appears.

□ Channel List Tools Menu (in Programmed)

You can view, modify or delete a reservation.

- ☑ Press the **TOOLS** button to use the tools menu.
 - **Change Info:** Select to change a viewing reservation.
 - **Cancel Schedules:** Select to cancel a viewing reservation.
 - **Information:** Select to view a viewing reservation. (You can also change the reservation information.)
 - **Select All / Deselect All:** Select or deselect all reserved programmes.



Picture Control

Changing the Picture Settings

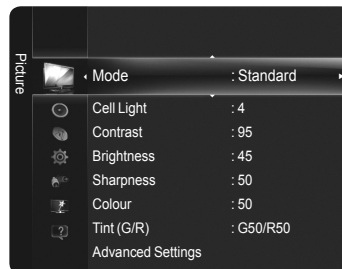
❑ Mode

You can select the type of picture which best corresponds to your viewing requirements.

- **Dynamic:** Selects the picture for high-definition in a bright room.
- **Standard:** Selects the picture for the optimum display in a normal environment.
- **Eco :** Selects the picture for optimum and eye-comfortable display.
- **Movie:** Selects the picture for viewing movies in a dark room.

🔧 Press the **TOOLS** button to display **Tools** menu.

You can also set the picture mode by selecting **Tools → Picture Mode**.



❑ Cell Light / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

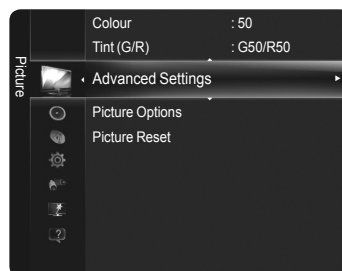
Your television has several setting options that allow you to control the picture quality.

- **Cell Light:** Adjusts the pixel brightness.
- **Contrast:** Adjusts the contrast level of the picture.
- **Brightness:** Adjusts the brightness level of the picture.
- **Sharpness:** Adjusts the edge definition of the picture.
- **Colour:** Adjusts Colour saturation of the picture.
- **Tint (G/R):** Adjusts the Colour tint of the picture.
- ☑ Select a picture mode to be adjusted first. The adjusted values are saved for each picture mode.
- ☑ When you make changes to **Cell Light, Contrast, Brightness, Sharpness, Colour** or **Tint (G/R)**, the OSD will be adjusted accordingly.
- ☑ In Analogue TV, AV modes of the PAL system, you cannot use the Tint Function.
- ☑ In **PC** mode, you can only make changes to **Cell Light, Contrast**, and **Brightness**.
- ☑ Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- ☑ The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and then this will reduce the overall running cost.

❑ Advanced Settings

You can adjust the detailed settings for your screen including the colour and contrast.

- ☑ **Advanced Settings** is available in **Standard** or **Movie** mode.
- ☑ In **PC** mode, you can only make changes to **Dynamic Contrast, Gamma** and **White Balance** from among the **Advanced Settings** items.



■ Black Tone → Off / Dark / Darker / Darkest

You can enhance the picture depth by adjusting the black colour density.

■ Dynamic Contrast → Off / Low / Medium / High

You can adjust the screen contrast so that the optimal contrast is provided.

■ Gamma

You can adjust the primary colour (Red, Green, Blue) Intensity.

■ Colour Space

Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite colour space to experience the most natural colour.

- **Auto:** Automatically sets the colour range depending on the input video source.
- **Native:** Sets the colour range wider than the that of the input video source.
- **Custom:** Adjusts the colour range to suit your preference.
- ☑ Customizing the Color Space
 - Adjusts the Color range to suit your preference. Color is available when Color Space is set to Custom.
 - **Color:** Red / Green / Blue / Yellow / Cyan / Magenta
 - **Red / Green / Blue:** You can adjust the RGB values for the selected color.
 - **Reset:** Resets the color space to the default values

Continued...

■ White Balance

You can adjust the colour temperature for more natural picture colours.

- **R-Offset / G-Offset / B-Offset / R-Gain / G-Gain / B-Gain:** Changing the adjustment value will refresh the adjusted screen.
- **Reset:** The previously adjusted white balance will be reset to the factory defaults.

■ Flesh Tone

You can adjust the flesh tone to be more or less red.

- ☑ Changing the adjustment value will refresh the adjusted screen.

■ Edge Enhancement → Off / On

You can emphasize object boundaries in the picture.

■ xvYCC → Off / On

Setting the xvYCC mode to on increases detail and colour space when watching movies from an external device (i.e. DVD player).

- ☑ **xvYCC** is available when the picture mode is set to **Movie**, and the external input is set to **HDMI** or **Component** mode.

□ Picture Options

You can customize the additional picture settings to suit your preference.

- ☑ In **PC** mode, you can only make changes to the **Colour Tone**, **Size**, and **Screen Burn Protection** from among the items in **Picture Options**.

■ Colour Tone → Cool / Normal / Warm1 / Warm2 / Warm3

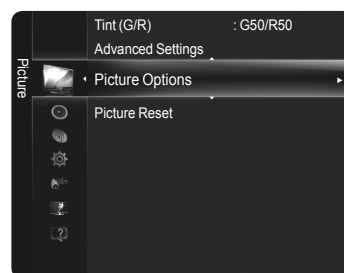
You can select the most comfortable colour tone to your eyes.

- ☑ The adjusted values are stored according to the selected **Picture** mode.
- ☑ **Warm1**, **Warm2** or **Warm3** is only activated when the picture mode is **Movie**.

■ Size

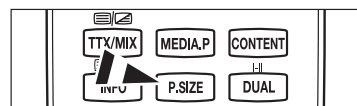
You can select the picture size which best corresponds to your viewing requirements.

- **16:9:** Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Wide Zoom:** Magnify the size of the picture more than 4:3.
- **Zoom:** Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3:** This is the default setting for a video movie or normal broadcasting.
- **Screen Fit:** Use the function to see the full image without any cutoff when **HDMI** (720p / 1080i / 1080p) or **Component** (1080i / 1080p) signals are input.
 - ☑ The picture size options may vary depending on the input source.
 - ☑ The items available may differ depending on the selected mode.
 - ☑ In **PC** Mode, only **16:9** and **4:3** mode can be adjusted.
 - ☑ Settings can be adjusted and stored for each external device you have connected to an input of the TV.
 - ☑ Temporary image retention may occur when viewing a static image on the set for more than two hours.
 - ☑ After selecting **Wide Zoom** mode: Press the ► button to select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER** button.
 - ☑ After selecting **Zoom** mode: Press the ► button to select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to select **Size**, then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.
 - ☑ After selecting **Screen Fit** in **HDMI** (720p / 1080i / 1080p) or **Component** (1080i / 1080p) mode: Select **Position** by pressing the ◀ or ▶ button. Use the ▲, ▼, ◀ or ▶ button to move the picture.
 - ☑ **Reset:** Press the ◀ or ▶ button to select **Reset**, then press the **ENTER** button. You can initialize the setting.
 - ☑ If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.



Press the **TOOLS** button to display **Tools** menu.
You can also set the picture size by selecting **Tools** → **Picture Size**.

- ☑ You can select these options simply by pressing the **P.SIZE** button on the remote control.



■ Digital NR → Off / Low / Medium / High / Auto

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

- ☑ When the signal is weak, select one of the other options until the best picture is displayed.
- ☑ This function is not available in **PC** mode.

Continued...

■ HDMI Black Level → Normal / Low

You can directly select the black level on the screen to adjust the screen depth.

☑ This function is active only when the external input connects to HDMI (RGB signals).

■ 1080 Full HD Motion Demo → Off / On

Samsung' new generation PDP panels deliver stunning Full HD motion clarity when viewing fast action sports, movies, and games.

■ Film Mode

You can optimize the picture mode for watching movies.

- **Off** : Turn the Film Mode function off.
- **Auto1**: Automatically adjusts the picture for the best quality when watching a film.
- **Auto2**: Automatically optimizes the video text when watching a film.

☑ Film mode is supported in TV, Video, Component(480i / 1080i) and HDMI(1080i).

- **Cinema Smooth**: Offers the ultimate cinema experience.

☑ This function is available when the external input connects to HDMI (1920x1080p@24Hz).

■ Real 100Hz Demo → Off / On

You can get a clear distinction between Real 100Hz and 50Hz, especially when watching fast moving scenes. Therefore, when seeing slow moving scenes, you will not be able to distinguish between Real 100Hz and 50Hz. Demo 100Hz works only with 50Hz signal. Real 100Hz demo mode is provided for shop demonstration with special pictures.

■ Blue Only Mode → Off / On

This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a blue filter effect that is used to adjust the colour and tint of video equipment such as DVD players, Home Theaters, etc.

☑ **Blue Only Mode** is available when the picture mode is set to **Movie** or **Standard**.

■ Screen Burn Protection

Configures the Screen Burn Protection Options to prevent and reduce pixel burn.

When an image remains in one position too long, it may cause a permanent burn on the screen.

- **Pixel Shift**: To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical) and side to side (Horizontal). The Time setting allows you to program the time between movement of the picture in minutes.

☑ Set **Pixel Shift** to **On** by pressing the ▲ or ▼ button, then press the **ENTER** button.

☑ Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.

☑ Available options: **Horizontal**, **Vertical**, **Time**.

☑ Optimum condition for pixel shift

	Item	TV/AV/Component/HDMI/PC
Horizontal	0~2	2
Vertical	0~4	4
Time (minute)	1~4 min	2 min

☑ The Pixel Shift value may differ depending on the monitor size (inches) and mode.

☑ This function is not available in the **Screen Fit** mode.

- **Scrolling**: This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.

- **Side Grey**: When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.

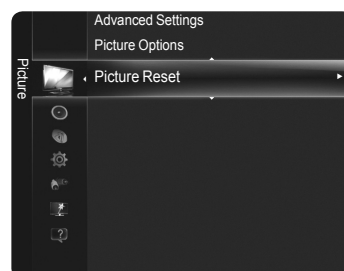
- **Light**: When you set the screen ratio to 4:3, it brightens the left and right sides.

- **Dark**: When you set the screen ratio to 4:3, it darkens the left and right sides.

□ Picture Reset → Reset Picture Mode / Cancel

Resets all picture settings to the default values.

☑ Select a picture mode to be reset. The reset is performed for each picture mode.



Viewing the Picture in Picture (PIP)

You can display a sub picture within the main picture of set programme or video input. In this way, you can watch the picture of set programme or video input from any connected equipment while watching the main picture.

- ☑ You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

✎ Press the **TOOLS** button to display **Tools** menu. You can also configure PIP related settings by selecting **Tools** → **PIP**.

☐ PIP → Off / On

You can activate or deactivate the PIP function.

Main picture	Sub picture
Component1, Component2	
HDMI 1, HDMI2/DVI, HDMI 3, HDMI 4	TV, AV1, AV2
PC	

■ Size → / / /

You can select a size of the sub-picture.

■ Source → TV/AV1/AV2

You can select a source of the sub-picture.

- ☑ You can select these options simply by pressing the **SOURCE** button on the remote control.

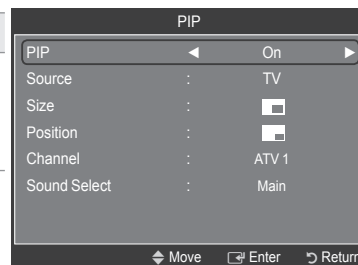
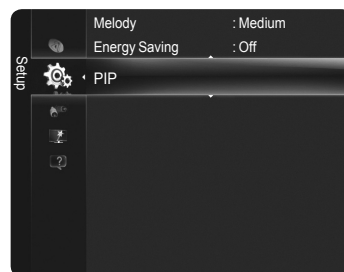
■ Position → / / /

You can select a position of the sub-picture.

- ☑ In Double (, ) mode, Position cannot be selected.

■ Channel

You can select a channel of the sub-picture only when the **Source** is set to TV.



Setting up the TV with your PC

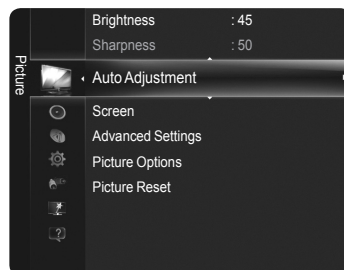
- ☑ Preset: Press the **SOURCE** button to select **PC** mode.

☐ Auto Adjustment

Auto Adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.

- ☑ This function does not work in DVI-HDMI mode.

✎ Press the **TOOLS** button to display **Tools** menu. You can also set the adjustment by selecting **Tools** → **Auto Adjustment**.



☐ Screen

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen.

■ Coarse

Adjusts the frequency when vertical noise appears on the screen.

■ Fine

Adjusts the screen to be clearer.

■ PC Position

Adjust the PC's screen positioning if it does not fit the TV screen. Press the **▲** or **▼** button to adjusting the Vertical-Position. Press the **◀** or **▶** button to adjust the Horizontal-Position.

■ Image Reset

You can replace all image settings with the factory default values.

PC Display

❑ Setting Up Your PC Software (Based on Windows XP)

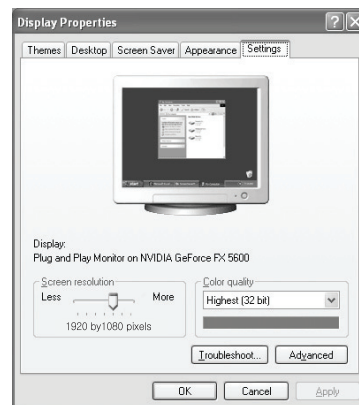
The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialog-box will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.

The correct size setting (resolution)

Optimum: 1920 X 1080 pixels.

If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.



❑ Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution.

The resolutions in the table are recommended.

■ D-Sub and HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	+ / -
	720 x 400	31.469	70.087	28.322	- / +
MAC	640 x 480	35.000	66.667	30.240	- / -
	832 x 624	49.726	74.551	57.284	- / -
	1152 x 870	68.681	75.062	100.000	- / +
VESA CVT	720 x 576	35.910	59.950	32.750	- / +
	1152 x 864	53.783	59.959	81.750	- / +
	1280 x 720	44.772	59.855	74.500	- / +
	1280 x 720	56.456	74.777	95.750	- / +
	1280 x 960	75.231	74.857	130.000	- / +
VESA DMT	640 x 480	31.469	59.940	25.175	- / -
	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	48.363	60.004	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1152 x 864	67.500	75.000	108.000	+ / +
	1280 x 800	49.702	59.810	83.500	- / +
	1280 x 800	62.795	74.934	106.500	- / +
	1280 x 960	60.000	60.000	108.000	+ / +
	1280 x 1024	63.981	60.020	108.000	+ / +
	1280 x 1024	79.976	75.025	135.000	+ / +
	1360 x 768	47.712	60.015	85.500	+ / +
	1440 x 900	55.935	59.887	106.500	- / +
	1440 x 900	70.635	74.984	136.750	- / +
	1680 x 1050	65.290	59.954	146.250	- / +
VESA GTF	1280 x 720	52.500	70.000	89.040	- / +
	1280 x 1024	74.620	70.000	128.943	- / -
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+ / +

- ☑ When using an HDMI / DVI cable connection, you must use the **HDMI IN 2(DVI)** jack.
- ☑ The interlace mode is not supported.
- ☑ The set might operate abnormally if a non-standard video format is selected.

Sound Control

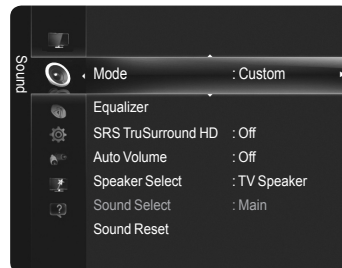
Changing the Sound Setting

❑ Mode

You can select the type of special sound effect to be used when watching a given broadcast.

- **Standard:** Selects the normal sound mode.
- **Music:** Emphasizes music over voices.
- **Movie:** Provides the best sound for movies.
- **Clear Voice:** Emphasizes voice over other sounds.
- **Custom:** Recalls your customized sound settings. (see Customizing the Sound)

Press the **TOOLS** button to display **Tools** menu.
You can also set the sound mods by selecting **Tools** → **Sound Mode**.



❑ Equalizer

The sound settings can be adjusted to suit your personal preferences.

- **Mode:** You can select a sound mode to suit your personal preferences.
- **Balance:** Controls the balance between the right and left speakers.
- **100Hz / 300Hz / 1kHz / 3kHz / 10kHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies.
- **Reset:** Resets the equalizer settings to the default values.

❑ SRS TruSurround HD

SRS TruSurround HD is the combined technology of TruSurround and FOCUS, TruBass.

SRS TruSurround HD is down mixing technology that makes the Surround Sound effect of virtual 5.1 channel via two speakers. This function provide not only rich deep bass at a low-pitched sound but also improve the resolution at a high-pitched sound.

Press the **TOOLS** button to display **Tools** menu.
You can also set the SRS TruSurround HD by selecting **Tools** → **SRS TS HD**.



TruSurround HD, SRS and the (●) symbol are trademarks of SRS Labs, Inc.
TruSurround HD technology is incorporated under license from SRS Labs, Inc.

❑ Auto Volume → Off / On

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

❑ Speaker Select → External Speaker / TV Speaker

If you want to hear the sound through separate speakers, cancel the internal amplifier.

- ☑ The **-** **+** **MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**.
- ☑ If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

	TV's Internal Speakers	Audio Out (L / R Out) to Sound System
	TV / AV / Component / PC / HDMI	TV / AV / Component / PC / HDMI
TV Speaker	Speaker Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute



Manufactured under license from Dolby Laboratories.
Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Continued...

❑ Sound Select

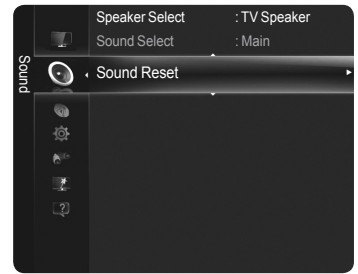
When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- **Main:** Use to listen to the sound of the main picture.
- **Sub:** Used to listen to the sound of the sub picture.

❑ Sound Reset

You can restore the Sound settings to the factory defaults.

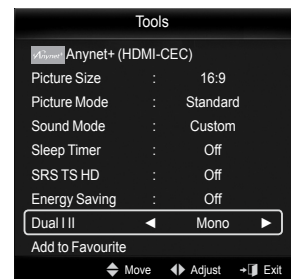
- **Reset All:** All the sound values return to default settings.
- **Reset Sound Mode:** Current sound values return to default settings.
- **Cancel:** Select the sound reset options.



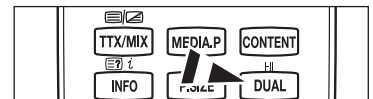
Selecting the Sound Mode

When you set to **Dual I II**, the current sound mode is displayed on the screen.

	Type of broadcast	On-screen indication		
NICAM Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Regular + NICAM Mono	NICAM	↔	Mono (Normal)
	NICAM-Stereo	NICAM Stereo	↔	Mono (Normal)
	NICAM Dual-I/II	NICAM Dual-1	→ NICAM Dual-2 →	Mono (Normal)
A2 Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Bilingual or DUAL-I/II	Dual I	↔	Dual II
	Stereo	Stereo	↔	Mono (Forced mono)



- 🔧 Press the **TOOLS** button to display **Tools** menu.
You can also set the dual I II by selecting **Tools** → **Dual I II**.



- ☑ If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- ☑ This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- ☑ This function is only available in **TV** mode.
- 🔧 You can select these options simply by pressing the **DUAL** button on the remote control.

Function Description

Configuring the Setup Menu

❑ Language

It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

❑ Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting the game menu.

■ When the Game Mode is On

- **Picture Mode** is automatically changed to **Standard** and users cannot change the mode.
- **Sound Mode** is automatically changed to **Custom** and users cannot change the mode. Adjust the sound using the equalizer.
- The Reset in the Sound menu is activated. Reset function initializes the Equalizer settings to the factory default setting.
- ☑ **Game Mode** is not available in regular TV mode or **Game Mode** set to **Off**.
- ☑ If the picture is poor when external device is connected to TV, check if **Game Mode** is **On**.
- ☑ This function supports only game function.
- ☑ If you display the TV menu in Game mode, the screen shakes slightly.
- ☑ The mark (🎮) appears on the screen which means that **Game Mode** is on with the selected source.
- ☑ Game mode is not available in PC mode.
- ☑ While PIP is in operation, the Game Mode function cannot be used.



❑ BD Wise

Wise is a function that enables you automatically to set the optimum condition all connected Samsung devices that support BD wise.

- ☑ This function is active only when an external device is connected to the TV via HDMI.
- ☑ When the BD Wise set to On, picture mode is automatically changed under the conditions

❑ Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

- ☑ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- ☑ The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN by selecting **Change PIN** from the menu.
- ☑ You can lock some channels in Channel List. (refer to page 15)
- ☑ **Child Lock** is available only in TV mode. .

❑ Change PIN

You can change your personal ID number that is required to set up the TV.

- ☑ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- ☑ The default PIN number of a new TV set is '0-0-0-0'.
- ☑ If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to '0-0-0-0': **POWER** (Off), **MUTE**, **8**, **2**, **4**, **POWER** (On).

❑ Melody → Off / Low / Medium / High3

The TV power on / off melody sound can be adjusted.

- ☑ **The Melody does not play**
 - When no sound is output from the TV because the **MUTE** button has been pressed.
 - When no sound is output from the TV because the **Volume** button has been pressed.
 - When the TV is turned off by **Sleep Timer** function.

❑ Energy Saving

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

- **Off**: Turns off the energy saving function.
- **Low**: Sets the TV to low energy saving mode.
- **Medium**: Sets the TV to medium energy saving mode.
- **High**: Sets the TV to high energy saving mode.

☑ Press the **TOOLS** button to display **Tools** menu.
You can also set the energy saving option by selecting **Tools** → **Energy Saving**.

Setting the Time

Setting the clock is necessary in order to use the various timer features of the TV.

- ☒ The current time will appear every time you press the **INFO** button.
- ☒ If you disconnect the power cord, you have to set the clock again.

☐ Clock

You can set the current time manually.

- ☒ You can set the day, month, year, hour, or minute directly by pressing the number buttons on the remote control.

☐ Sleep Timer → Off / 30 min / 60 min / 90 min / 120 min / 150 min / 180 min

The sleep timer automatically shuts off the TV after a preset time.

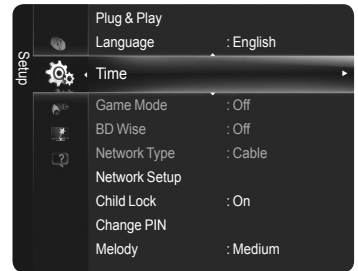
- ☒ The TV automatically switches to standby mode when the timer reaches 0.
- ☒ To cancel the **Sleep Timer** function, select **Off**.

 Press the **TOOLS** button to display **Tools** menu.
You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.

☐ Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made.

- **On Time:** Set the hour, minute, and **Activate/Inactivate**.
(To activate timer with the setting you've chosen, set to **Activate**.)
- **Off Time:** Set the hour, minute, and **Activate / Inactivate**.
(To activate timer with the setting you've chosen, set to **Activate**.)
- **Volume:** Selects the volume level.
- **Source:** Selects TV or USB device.
 - ☒ When you select the **TV**, you can set the **Channel**.
- **Channel:** Selects the desired channel.
 - ☒ When you select the **USB** or **TV Memory**, you can set the **Contents**.
- **Contents:** Selects the desired contents on the **USB** or **TV Memory**.
- **Repeat:** Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun**, or **Manual**.
 - ☒ You must set the clock first.
 - ☒ You can set the hour, minute, or channel directly by pressing the number buttons on the remote control.
 - ☒ **Auto Power Off**
When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.



Source List / Edit Name

☐ Source List

Use to select TV or other external input sources such as DVD players or Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.

☒ TV, PC, AV1, AV2, Component1, Component2, HDMI1, HDMI2/DVI, HDMI3, HDMI4, USB.

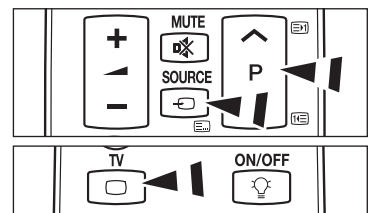
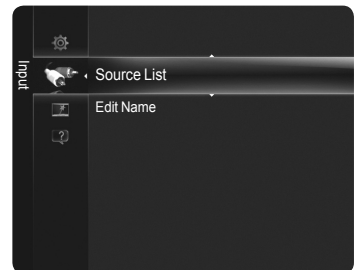
- ☒ You can choose only those external devices that are connected to the TV.
- ☒ **Using the Colour buttons on the remote with the Source list**
 - **Red (Refresh):** Refreshes the connected external devices. Press this if your Source is on and connected, but does not appear in the list.
 -  **TOOLS (Tools):** Displays the **Edit Name** and **Information** menus.
- ☒ Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button, number buttons (0~9), and the **P** button on the remote control.

☐ Edit Name

You can name the device connected to the input jacks to make your input source selection easier.

☒ VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI / DVI PC / TV / IPTV / Blu-ray / HD DVD / DMA

- ☒ When a PC with a resolution of 1920x1080@60Hz is connected to the HDMI IN 2 (DVI) port, you should set the HDMI2/DVI mode to PC in the Edit Name of the Input mode.
- ☒ When connecting an HDMI/DVI cable to the **HDMI IN 2(DVI)** port, you should set the **HDMI2/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.

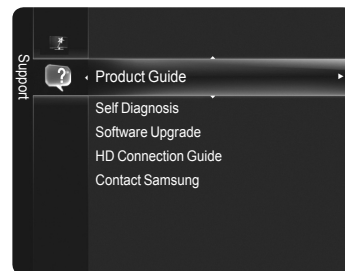


Supported Program

❑ Product Guide

The Product Guide gives you information on the most important features of this TV.

- **Medi@2.0:** Internet@TV-Content Service, Content Library Flash, USB2.0 Movie, DLNA Wireless
- **Picture Quality:** 1080 Full HD Motion, Ultra FilterBright, 100Hz Motion Plus, Cinema Smooth, Picture Mode
- **Eco-Friendly:** Energy Saving, Eco-Material



❑ Self Diagnosis

■ Picture Test

If you think you have a picture problem, perform the picture test. Check the colour pattern on the screen to see if the problem stillexists.

- ☑ **Does the problem still exist with this test photo?** appears on the screen.
- ☑ If the test pattern does not appear or there is noise in the test pattern, select **Yes**.
If the test pattern is properly displayed, select **No**.
- **Yes** : There may be a problem with the TV. Contact Samsung's Call Center for assistance.
- **No** : There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

■ Sound Test

If you think you have a sound problem, please perform the sound test.

You can check the sound by playing a built-in melody sound through the TV.

- ☑ **Does the problem still exist with this sound test?** appears on the screen.
- ☑ If during the sound test you can hear sound only from one speaker or not at all, select **Yes**.
If you can hear sound from the speakers, select **No**.
- **Yes** : There may be a problem with the TV. Contact Samsung's Call Center for assistance.
- **No** : There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.
- ☑ If you hear no sound from the TV's speakers, before performing the sound test, make sure Speaker Select is set to TV speaker in the Sound menu.
- ☑ The melody will be heard during the test even if Speaker Select is set to External Speaker or the sound is muted by pressing the **MUTE** button.
- ☑ If headphones are connected, the test melody will play through the headphones.

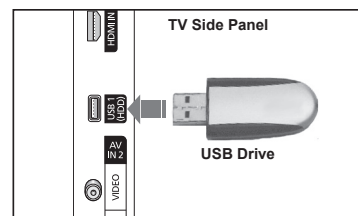
■ Signal Strength (Digital channels only)

You can adjust your antenna to improve the reception of available digital channels.

- ☑ If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength.
Continue to adjust the antenna until you find the best position with the strongest signal.

❑ Software Upgrade

To keep your product up-to-date with new Digital Television features then software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade.



■ By USB

Insert a USB drive containing the firmware upgrade into TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete. When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.

■ Alternative Software

Replace the current software with the alternative.

❑ HD Connection Guide

The brief instruction on How to get the best performance from your new HDTV is displayed.

We offer the connection method for HD devices.

- ☑ You can move the previous or next page by pressing the **◀** or **▶** button.

❑ Contact Samsung

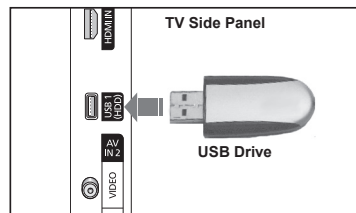
You can know the Samsung Call center, website and information for product.



Media Play

Connecting a USB Device

1. Press the **POWER** button to turn the TV on.
 2. Connect a USB device containing photo, music and movie files to the USB jack on the side of the TV.
- ☑ If you enter the Media Play mode with no USB device connected the message **No external storage device found. Check the connection status.** will appear. In this case, insert the USB device, exit the screen by pressing the **MEDIA.P** button on the remote control and enter the Media Play screen again.
- ☑ MTP (Media Transfer Protocol) is not supported.
- ☑ The file system only supports FAT16/32 (The NTFS file system is not supported).
Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- ☑ Media Play only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
- ☑ Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB compatibility problem.
- ☑ Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- ☑ Do not disconnect the USB device while it is loading.
- ☑ MSC supports MP3 and JPEG files, while a PTP device supports JPEG files only.
- ☑ The sequential JPEG format is supported.
- ☑ The higher the resolution of the image, the longer it takes to display on the screen.
- ☑ The maximum supported JPEG resolution is 15360X8640 pixels.
- ☑ For unsupported or corrupted files, the **Not Supported File Format** message is displayed.
- ☑ If the number of photo files exceeds 4000 (or the number of music files exceeds 3000), any files exceeding the 4000 limit may not be displayed in the Photo List (or Music List).
- ☑ MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation of content, the distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- ☑ When moving to a photo, loading may take a few seconds. At this point, the loading icon will appear at the screen.



☐ Using the Remote Control Button in Media Play Menu

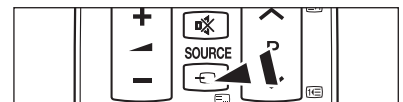
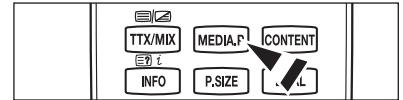
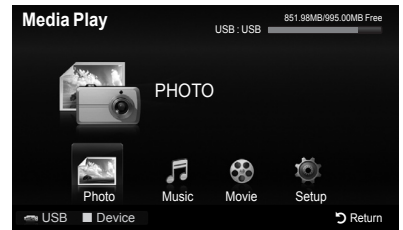
Button	Operations
▲/▼/◀/▶	Move the cursor and select an item.
ENTER	Select the currently selected item. While playing a slide show, movie, or music file: - Pressing the ENTER button during play pauses the play. - Pressing the ENTER button during pause resumes the play.
/	Play or pause the slide show, music, or movie file.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
	Stop the current slide show, music or movie file.
◀◀/▶▶	Jump to previous group/Jump to next group.
INFO	Show file information.
MEDIA.P	Enter/Exit Media Play mode.
P /	Stop Media Play mode and Returns to TV mode.
EXIT	Exit Media Play mode.

Using the Media Play Function

This function enables you to view and listen to photo, music and movie files saved on a USB Mass Storage Class (MSC) device.

❑ Entering the Media Play Menu

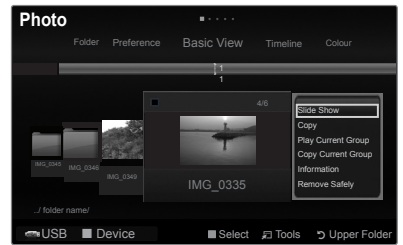
1. Press the **MENU** button. Press the **▲** or **▼** button to select **Application**, then press the **ENTER** button.
2. Press the **▲** or **▼** button to select **Media Play (USB&DLNA)**, then press the **ENTER** button.
 - ☑ The **Media Play** menu is displayed.
 - ☑ Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.
 - ☑ Press the **SOURCE** button on the remote control repeatedly to select **USB** or **DLNA**, then press the **ENTER** button.
3. Press the Red button, then press the **▲** or **▼** button to select the corresponding USB Memory Device (i.e. if connected through a hub). Press the **ENTER** button.
 - ☑ This function differs depending on the USB Memory Device/ DLNA device connected to TV.
 - ☑ The selected USB device name appears at the bottom left of the screen.
4. Press the **◀** or **▶** button to select an icon (**Photo**, **Music**, **Movie**, **Setup**), then press the **ENTER** button.
 - ☑ To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.
 - ☑ You can enjoy game movies. (Not support game program)



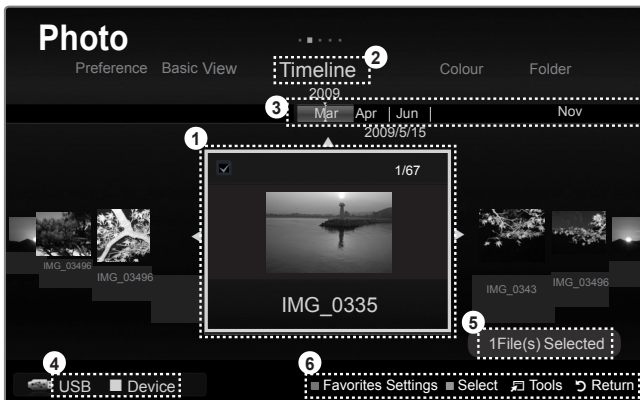
❑ Removing a USB Memory Device Safely

You can remove the device safely from the TV.

1. Press the **TOOLS** button in the Media Play file list screen, or while a SlideShow or music file is being played.
2. Press the **▲** or **▼** button to select **Remove Safely**, then press the **ENTER** button.
3. Remove the USB device from the TV.



❑ Screen Display



1. Currently selected file: The currently selected file is highlighted.
2. Current Sort Standard: This field shows the current standard for sorting files.
3. View Groups: The sorting group including the currently selected photo is highlighted.
4. Current Device: Shows the currently selected device name.
 - ☑ **Red (Device)** button: Selects a connected device.
5. Item Selection Information: Shows the number of photos that are selected by pressing the Yellow button.
6. Help Items

- **Green** (Favourites Settings) button: Changes the Favourites Settings for the selected file. Press this button repeatedly until the desired value appears.
- **Yellow** (Select) button: Selects file from the file list. Selected files are marked with a symbol **✓**. Press the yellow button again to cancel a file selection.
- **TOOLS** (Tools) button: Displays the option menus. (The option menu changes according to the current status.)
- **Return** button: Return to previous menu.

Using and Sorting Photo List

You can sort photos in the Photo List by a particular standard.

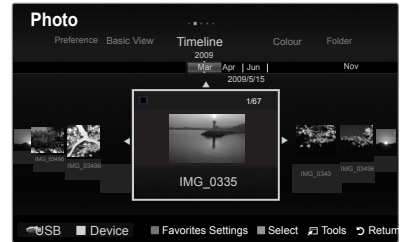
1. Press the **▲** button twice, then press the **◀** or **▶** button to select a sorting standard in the Photo list.

(Basic View, Timeline, Colour, Folder, Preference)

- ☒ The photos are sorted according to the newly selected sorting standard.
- ☒ To move to the previous/next group, press the **◀** (REW) or **▶** (FF) button.

2. Press the **▶** (Play)/**ENTER** button to start the Slide Show in the order selected by the user.

- ☒ The information of a photo file is automatically set.
- ☒ The **colour** information extracted from a photo file may be different from the user's expectations.
- ☒ Photo information is automatically set. You can change the **Colour**, and **Preference**.
- ☒ Photos for which information cannot be displayed are set as **Unclassified**.
- ☒ PTP does not support folder sort mode.



□ Sorting Standard for the Photo List

■ Basic View

It shows whole folder. You can view the photo by selecting the folder.

- ☒ When sorted according to the **Basic View**, you cannot set Favorite files.

■ Timeline

It sorts and shows photos by date. It sorts by year and month from the earliest photo.

■ Colour

It sorts photos by colour. You can change the photo colour information.

- ☒ To use this function, set the **Use Colour View** in the **Setup** menus to **On**.
- ☒ **Colour** options: Red, Yellow, Green, Blue, Magenta, Black, Gray, Unclassified.

■ Folder

It sorts photos by folder. If there are many folders in USB, the photos files are shown in order in each folder. The photo file in the root folder is shown first and the others are shown in alphabetical order by name.

■ Preference

It Sorts photos by preference (Favourites). You can change the photo preferences.

- ☒ **Changing the Favourites Settings.**
Select the desired photo in the Photo list, then press the Green button repeatedly until the desired setting appears.
- ☒ **Favourites** options: **☆☆☆**, **☆☆**, **☆☆**, **☆☆**

□ Photo List Tools Menu

■ Slide Show

You can play a Slide Show using the photo files on the USB memory device.

■ Copy

You can copy the selected photo files to TV's memory.

■ Play Current Group

You can play a Slide Show using only the photo files in the currently selected sorting group.

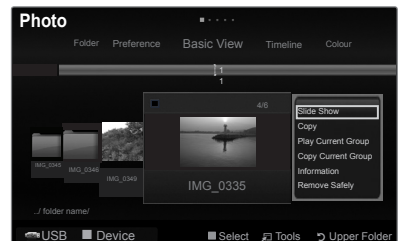
■ Change Group

You can change the **colour** information of photo files.

- ☒ The group information of the current file is updated and the file is moved to the new group.
- ☒ To change the information of multiple files, select the files you want by pressing the yellow button.

■ Copy Current Group

You can copy the photo files in the currently selected sorting group to TV's memory.

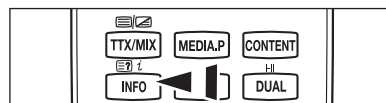


Continued...

Information

The photo file information including the name, the size, the resolution, the date modified and the path is displayed.

- ☑ You can view the information of photo files during a Slide Show using the same procedures.
- ☑ Alternatively, select a photo from the photo list and press the **INFO** button to view the information.



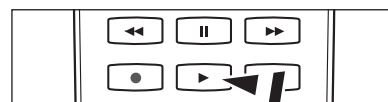
Remove Safely

You can remove the device safely from the TV.

Viewing a Photo or Slide Show

Viewing a Slide Show

1. Press the ◀ or ▶ button to select the desired photo in the Photo list.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Slide Show**, then press the **ENTER** button.
 - ☑ All files in the photo list will be used for the Slide Show.
- ☑ During the slide show, files are displayed in order from the currently shown file.
- ☑ The Slide Show progresses in the order sorted in the Photo list.
- ☑ Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**. (Refer to page 30).
- ☑ While a photo list is displayed, press the ▶ (Play)/**ENTER** button on the remote control to start slide show.



SlideShow Control Buttons

ENTER	Play/Pauses the Slide Show.		Exit Slide Show and return to the photo list.
	Play the Slide Show.	TOOLS	Run various functions from the Photo menus.
	Pause the Slide Show.		Change the SlideShow playing speed.

Playing current group

1. Press the ◀ or ▶ button to select a sorting standard. (**Basic View, Timeline, Colour, Folder, Preference**)
2. Press the ⏮ (REW) or ⏭ (FF) button to select the desired group.
3. Press the ▼ button twice, then press the **TOOLS** button.
4. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** button.
 - ☑ Only the photos in the sorting group including the selected files will be used for the Slide Show.

Playing the selected photo files

1. Press the ◀ or ▶ button to select the desired photo in the Photo list.
2. Press the yellow button. Repeat the above operation to select multiple photos.
 - ☑ The ✓ mark appears to the left of the selected photo.
 - ☑ If you select one file, the slide show will not be performed.
 - ☑ To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
3. Press the ▶ (Play) / **ENTER** button.
 - ☑ The selected files will be used for the slide show.

Continued...

❑ Slide Show Tools Menu

■ Stop Slide Show / Start Slide Show

You can start or stop a SlideShow.

■ Slide Show Speed → Normal / Fast / Slow

You can select the slide show speed only during the slide show.

- ☑ You can also change the speed of the Slide Show by pressing the ◀ (REW) or ▶ (FF) button during the Slide Show.

■ Slide Show Effect

You can set variously the slide show effect.

- **Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe, Random, None**

■ Rotate → 0° / 90° / 180° / 270°

You can rotate photos saved on a USB memory device.

■ Zoom → x1 / x2 / x4

You can magnify photos saved on a USB memory device.

- ☑ To move the enlarged photo image, press the **ENTER** button, then press the ▲/▼/◀/▶ buttons. Note that when the enlarged picture is smaller than the original screen size, the location change function doesn't work.
- ☑ The enlarged file is not saved.

■ Background Music

You can set and select background music when watching a Slide Show.

- ☑ To use this feature, there must be music on the USB device.
- ☑ Loading music files is needed to change BGM mode. Play music files in music category to load.
 - **Background Music → On / Off**
 - **BGM Mode → Mood / Selected File / Shuffle**
 - **BGM Mood → Energetic / Rhythmical / Sad / Exciting / Calm**
 - ☑ If you set **BGM Mode** to **Mood**, you can select a mood.
 - ☑ You cannot select a mood not part of the music files on the USB memory device.
 - **Select Music File**
 - ☑ If you set **BGM Mode** to **Selected File**, you can select a music file.

■ Picture Setting / Sound Setting

Refer to page 36.

■ Information

The photo file information is displayed.

■ Remove Safely

You can remove the device safely from the TV.



Using and Sorting the Music List

You can sort music files in the Music List by a particular standard.

1. Press the **▲** button twice, then press the **◀** or **▶** button to select a sorting standard in the Music list. (**Basic View**, **Title**, **Artist**, **Mood**, **Genre**, **Folder**, **Preference**)

- ☑ Music files are sorted according to the newly selected sorting standard.
- ☑ To move to the previous/next group, press the **◀** (REW) or **▶** (FF) button.

2. Press the **ENTER** button to start playing music in the order selected by the user.

- ☑ The information of the music files is automatically set.
- ☑ The **Mood** information extracted from a music file may differ from the expectations of the user.
- ☑ Music information is automatically set. You can change the **Mood** and **Preference**.
- ☑ Music files for which information cannot be displayed are set to **Unclassified**.
- ☑ If there is no title information for a music file, the filename is displayed.
- ☑ If no information is available for the Genre, Artist, Album, or Year the corresponding item is displayed as blank.

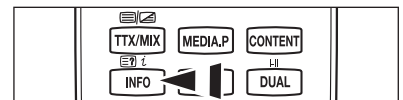
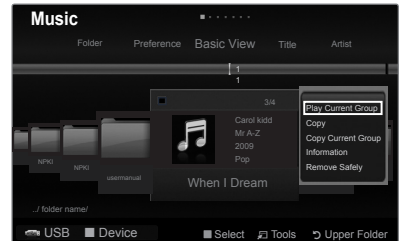


☐ Sorting Standard for the Music List

- **Basic View:** It shows whole folder. You can view the photo by selecting the folder.
 - ☑ When sorted according to the **Basic View**, you cannot set Favorite files.
- **Title:** It sorts the Music titles in alphabetical order, and shows the music file.
- **Artist:** It sorts the music file by artist in alphabetical order.
- **Mood:** It sorts music files by the mood. You can change the music mood information.
 - ☑ **Mood** options: Energetic, Rhythmical, Sad, Exciting, Calm, Unclassified
- **Genre:** It sorts music files by the genre.
- **Folder:** It sorts music files by the folder. If there are many folders in USB, the files are shown in order in each folder. The music file in the Root folder is shown first and the others are shown in alphabetical order by name.
- **Preference:** It sorts music files by preference (Favourites). You can change the music files preferences.
 - ☑ Changing the Favourites Settings
Select the desired music file in the Music list, then press the Green button repeatedly until the desired setting appears.
 - ☑ **Favourites** options: ★★, ★★, ★★, ★★

☐ Music List Tools Menu

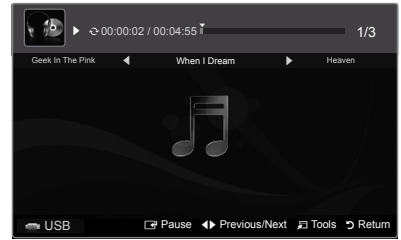
- **Play Current Group**
You can only play music files in the currently selected sorting group.
- **Copy**
You can copy the selected music files to TV's memory.
- **Change Group**
You can change the mood information of music files.
 - ☑ The group information of the current file is updated and the file is moved to the new group.
 - ☑ To change the information of multiple files, select files by pressing the yellow button.
- **Copy Current Group**
You can copy the music files in the currently selected sorting group to TV's memory.
- **Information**
The music file information including the name, the size, the date modified and the path is displayed.
 - ☑ You can view the information of music files during a Slide Show using the same procedures.
 - ☑ Alternatively, select a music file from the music list and press the **INFO** button to view the information.
- **Remove Safely**
You can remove the device safely from the TV.



Playing a Music

□ Playing a music file

1. Pressing the ◀ or ▶ button to select a music file to be played.
2. Press the ▶ (Play)/ENTER button.
 - ☑ This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed, even if they are saved on the same USB device.
 - ☑ ◀ (REW) or ▶ (FF) buttons do not function during play.
 - ☑ The selected file is displayed at the top with its playing time.
 - ☑ To adjust the music volume, press the **volume** button on the remote control. To mute the sound, press the **MUTE** button on the remote control.
 - ☑ The playing duration of a music file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.



☑ Music Play Control Buttons

ENTER	Play/Pauses the music file.	◻	Exit play mode and return to the music list.
▶	Play the music file	TOOLS	Run various functions from the Music menus.
⏸	Pause the music file		

☑ Music function information icon

↺	When all music files in the folder (or the selected file) are repeated. Repeat Mode is On.
↻	When all music files in the folder (or the selected file) are played once. Repeat Mode is Off.

□ Playing the music group

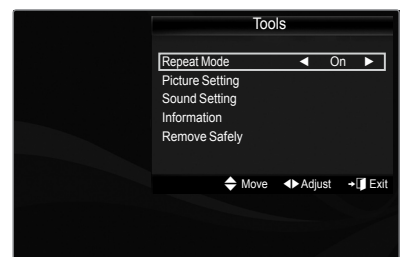
1. Press the ◀ or ▶ button to select a sorting standard.
(Basic View, Title, Artist, Mood, Genre, Folder, Preference)
2. Press the ◀ (REW) or ▶ (FF) button to select the desired group.
3. Press the ▼ button twice, then press the **TOOLS** button.
4. Press the ▲ or ▼ button to select **Play Current Group**, then press the ENTER button.
 - ☑ The music files in the sorting group including the selected file are played.

□ Playing the selected music files

1. Press the ◀ or ▶ button to select the desired music file in the music list.
2. Press the yellow button. Repeat the above operation to select multiple music files.
 - ☑ The ✓ mark appears to the left of the selected music file.
 - ☑ To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
3. Press the ▶ (Play)/ENTER button.
 - ☑ Only the selected file is played.

□ Music Play Tools Menu

- **Repeat Mode → On/Off**
You can play music files repeatedly.
- **Picture Setting / Sound Setting**
Refer to page 36.
- **Information**
The music file information is displayed.
- **Remove Safely**
You can remove the device safely from the TV.



Using and Sorting the Movie List

You can sort movies in the Movie List by a particular standard.

1. Press the **▲** button twice, then press the **◀** or **▶** button to select a sorting standard in the Movie list. (**Basic View**, **Timeline**, **Title**, **Folder**, **Preference**)
 - ☑ The movie files are sorted according to the newly selected sorting standard.
 - ☑ To move to the previous/next group, press the **◀** (REW) or **▶** (FF) button.
2. Press the **▶** (Play)/**ENTER** button to play the movie in the order selected by the user.
 - ☑ The movies are sorted according to the newly selected sorting standard.
 - ☑ Movie information is automatically set. You can change the **Preference**.



☐ Sorting Standard for the Movie List

■ Basic View

It shows whole folder. You can view the photo by selecting the folder.

- ☑ When sorted according to the **Basic View**, you cannot set Favorite files.

■ Timeline

It sorts and shows movies by date. It sorts by year and month from the earliest movie.

■ Title

It sorts and displays the Movie titles in symbol/number/alphabet/special order.

■ Folder

If there are many folders in USB, the movies files are shown in order in each folder. The movie file in the root folder is shown first and the others are shown in alphabetical order by name.

■ Preference

It sorts movies by preference (favourites). You can change the movie preferences.

- ☑ Changing the Favourites Settings
Select the desired movie file in the movie list, then press the Green button repeatedly until the desired setting appears.
- ☑ Favourites options: **☆☆☆**, **☆☆**, **☆**, **☆☆☆☆**

☐ Movie List Tools Menu

■ Play Current Group

Using this menu, you can only play movie files in the currently selected sorting group.

■ Copy

You can copy the selected movie files to TV's memory.

■ Copy Current Group

You can copy the music files in the currently selected sorting group to TV's memory.

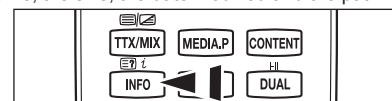
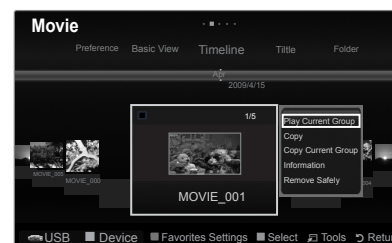
■ Information

The movie file information including the order of the file in the current directory, the name, the size, the date modified and the path is displayed.

- ☑ Alternatively, select a movie file from the movie list and press the **INFO** button to view the information.

■ Remove Safely

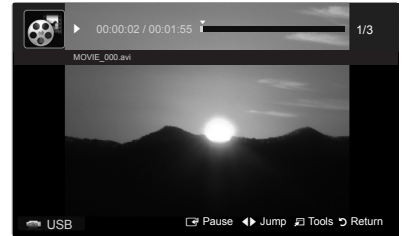
You can remove the device safely from the TV.



Playing a Movie File

□ Playing a movie file

- Pressing the ◀ or ▶ button to select a movie to be played.
- Press the ◻ (Play) / ENTER ◻ button.
 - ☑ The selected file is displayed at the top with its playing time.
 - ☑ The playing duration of a movie file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
 - ☑ Press the ◀ button while playing a video file to rewind by 10 seconds.
 - ☑ Press the ▶ button to fast forward by 10 seconds.
 - ☑ Supported Video Formats



Video Codec			
File Extension	Container	Video Decoder	Max Resolution Sti
*.avi	AVI	XviD	720x576
		MPEG1	720x576
		MPEG2	720x576
		H.264 BP	1920x1088
		H.264 BP	1920x1088
		H.264 HP	1920x1088
		MPEG-4 SP	720x576
		MPEG-4 ASP	720x576
*.mp4	MP4	H.264 BP	1920x1088
		H.264 MP	1920x1088
		H.264 HP	1920x1088
		MPEG-4 SP	720x576
		MPEG-4 ASP	720x576
*.mpg *.mpeg *.vro *.vob	PS	MPEG1 (Program Stream)	1920x1088
		MPEG2 (Program Stream)	1920x1088
		MPEG2 VOB	1920x1088
		MPEG2 VRO	1920x1088
others (ts)	TS	MPEG2 (Transport Stream)	1920x1088
		H.264 (Transport Stream)	1920x1088

☑ Video Play Control Buttons

ENTER ◻	Play/Pauses the movie file
◻	Play the movie file
◻	Pause the movie file
◻	Exit play mode and return to the movie list.
TOOLS	Run various functions from the movie menus.
◀/▶	Skip backwards through the movie file in 10 second intervals.
▼/▲	Move to the first or last view of the current file.

☑ Movie function information icon

↺	When all movie files in the folder (or the selected file) are repeated. Repeat Mode is On.
↻	When all movie files in the folder (or the selected file) are played once. Repeat Mode is Off.

Continued...

❑ Playing the movie group

1. Press the ◀ or ▶ button to select a sorting standard.
(**Basic View, Timeline, Title, Folder, Preference**)
2. Press the ⏮ (REW) or ⏭ (FF) button to select the desired group.
3. Press the ▼ button twice, then press the **TOOLS** button.
4. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** button.
☑ Only the movie files in the sorting group including the selected files will be played.

❑ Playing the selected movie files

1. Press the ◀ or ▶ button to select the desired movie file in the movie list.
2. Press the yellow button. Repeat the above operation to select multiple movie files.
☑ The ✓ mark appears to the left of the selected movie file.
☑ To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
3. Press the ▶ (Play)/**ENTER** button.
☑ Only the selected file is played.

❑ Playing movie continuously

If you exit playing movie, playing it continuously later is possible.

With **Play continuously** function, you can watch movie without watching again from beginning or bothering searching.

1. Select movie file you want to **Play continuously** by pressing ◀ or ▶ button from the Movie List.
2. Press the ▶ (Play)/**ENTER** button.
3. Select **Play continuously** by pressing Blue button.
☑ Movie will begin to play from where it was stopped being played.
☑ If **Cont. movie play help** function was set **On**, a pop-up message will appear when you play movie file you want to **Play continuously**.

❑ Movie Play Tools Menu

■ Picture Setting / Sound Setting

Refer to page 36.

■ Picture Size

- **Fit**: Play video at the TV screen size.
- **Original**: Play video at the original size.

■ Caption Setting

You can play the movies with caption.

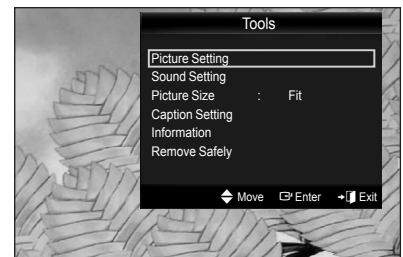
- **Caption: On / Off**
- **Caption Language: Western Europe / Arabic**
☑ Not available in all locations.
- **Caption Size: Large / Small / Standard**
- **Caption Sync**: Adjusts the caption output time.
- **Caption Sync Reset**: Resets the Sync to the default values.

■ Information

The movie file information is displayed.

■ Remove Safely

You can remove the device safely from the TV.

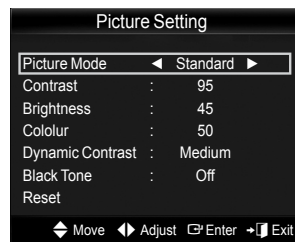


Picture / Music Settings Using Media Play

When watching a SlideShow or listening to music using Media Play, you can set the picture and sound.

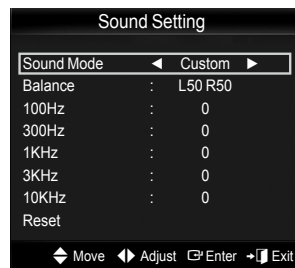
Picture Setting

1. Press the **TOOLS** button during a Slide Show or while music is playing.
2. Press the **▲** or **▼** button to select **Picture Setting**.
3. Press the **◀** or **▶** button to select the **Picture Mode** (**Standard**, **Eco**, **Movie**, or **Dynamic**).
4. Press the **▲** or **▼** button to move to an item.
(**Contrast**, **Brightness**, **Colour**, **Dynamic Contrast**, **Black Tone**, or **Reset**)
☒ Select **Reset** to initialize the picture settings.
5. Press the **◀** or **▶** button to adjust the settings.
☒ For more information on the picture settings, refer to pages 16~18.



Sound Setting

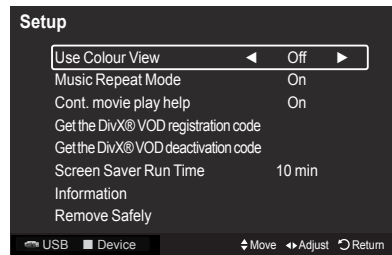
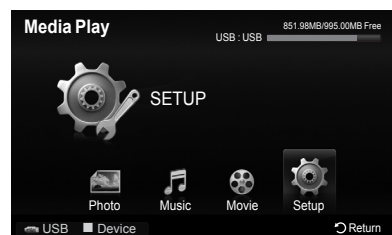
1. Press the **TOOLS** button during a Slide Show or while music is playing.
2. Press the **▲** or **▼** button to select **Sound Setting**.
3. Press the **◀** or **▶** button to select the **Sound Mode**.
(**Standard**, **Music**, **Movie**, **Clear Voice**, or **Custom**)
4. Press the **▲** or **▼** button to move to an item.
(**Balance**, **100Hz** / **300Hz** / **1KHz** / **3KHz** / **10KHz** (Bandwidth Adjustment), or **Reset**)
☒ Select **Reset** to initialize the sound settings.
5. Press the **◀** or **▶** button to adjust the settings.
☒ For more information on the sound settings, refer to page 21~22.



Using the Setup Menu

Setup displays the user settings of the **Media Play** menu.

1. Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.
2. Press the **◀** or **▶** button to select **Setup**, then press the **ENTER** button.
3. Press the **▲** or **▼** button to select the desired option.
4. Press the **◀** or **▶** button to select the option
☒ To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.



■ Use Colour View → On / Off

Select to view the colour information in the Photo menu.

- ☒ If this is set to ON, the loading time increases for collecting the colour information.

■ Music Repeat Mode → On / Off

Select to repeatedly play music files.

■ Cont. movie play help → On / Off

Select to display the help pop-up message for continuous movie playback.

■ Get the DivX® VOD registration code

Shows the registration code authorized for the TV. If you connect to the DivX web site and register the registration code with a personal account, you can download VOD registration file. If you play the VOD registration using Media Play, the registration is completed. For more information on DivX® VOD, visit www.DivX.com.

■ Get the DivX® VOD deactivation code

When DivX® VOD is not registered, the registration deactivation code is displayed. If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.

■ Screen Saver Run Time → 10 min / 20 min / 40 min / 1 hour

Select to set the waiting time before the screen saver appears.

■ Information

Select to viewing the information of the connected device.

■ Remove Safely

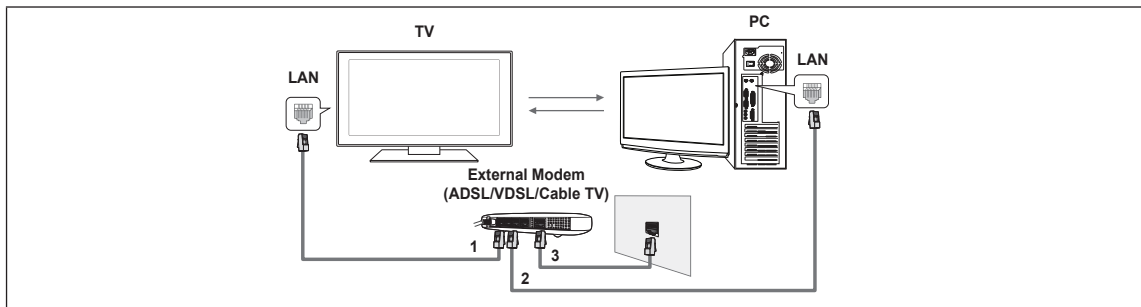
You can remove the device safely from the TV.

Media Play-DLNA

Setting the DLNA Network

DLNA allows you to watch videos and pictures saved on your PC on your TV through a network connection in Media Play mode. This removes the need to copy them to a USB storage device and then connect the device to your TV. To use DLNA, the TV must be connected to the network and the DLNA application must be installed on your PC.

□ Network Connections Diagram



1. Connect the LAN port on the rear panel of the TV to the external modem with a LAN Cable.
2. Connect the PC to which the "DLNA PC Share Manager" programme will be installed and the external modem using a LAN cable.
3. Connect the LAN port on the wall and the external modem with a Modem Cable.

□ Connecting to the Network

1. When connecting to the network is complete, set up the network on the TV.
 - ☑ A Wireless Internet connection does not support DLNA.
 - ☑ Three parts(subnet address) before the TV and PC IP addresses should be same. The last part (host address) should be changed. (e.g. IP Address: 123.456.789.**)
2. Run a **Network Test** to check the network settings.

Installing the DLNA Application

To play content on the PC on the TV, you have to first install the application.

■ System Requirements

1. Insert the Programme CD supplied with this TV into your PC.
2. 20MB of free hard disk space is needed for the programme installation.
 - ☑ If you share files, up to 20MB of hard disk drive space is required for each 100 files.
 - ☑ If you cancel file sharing, the hard disk drive space used for the thumbnail information is also freed.

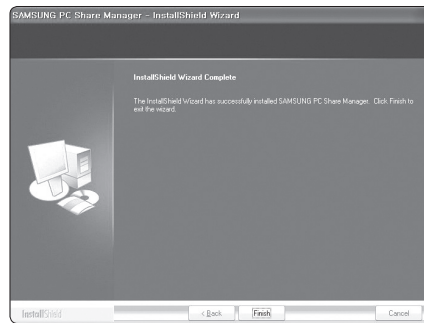
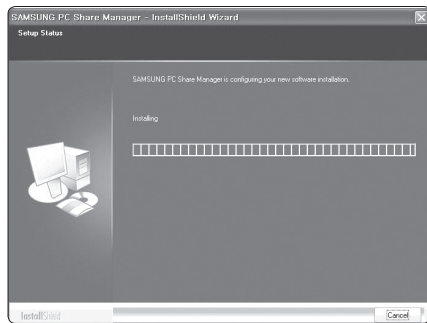
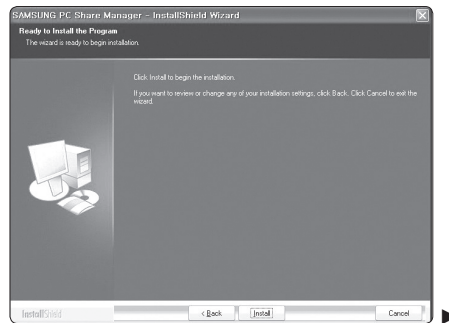
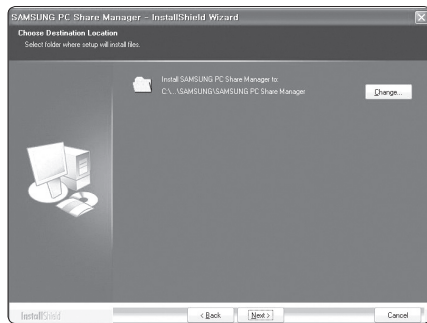
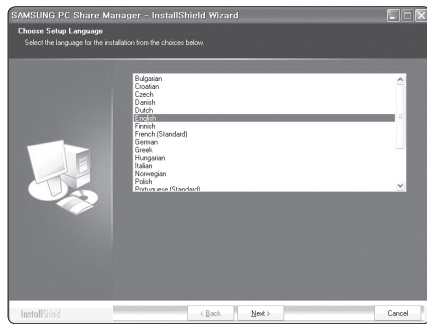
■ Supported Formats

1. Image: JPEG (jpg, jpeg)
2. Audio: MP3 (mp3)
3. Video: MPEG1(mpg, mpeg), MPEG2 PS/TS(mpg, mpeg, trp, ts, tp), divx(mpg, mpeg, avi), MPEG4/H.264 (mpg, mpeg)

Continued...

■ Install the application

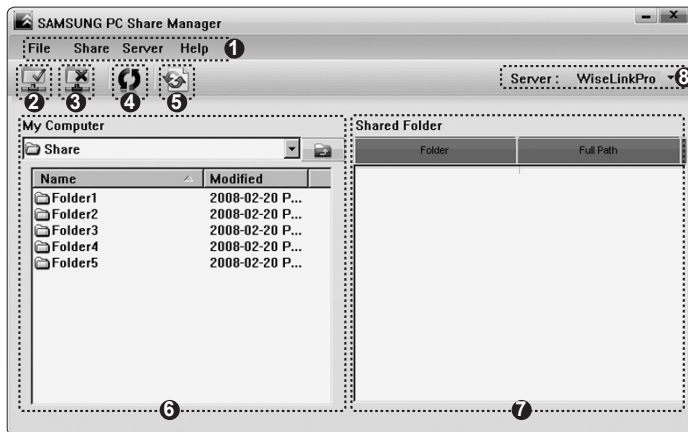
1. Run the Setup.exe file on the Programme CD supplied with the product.
☒ Alternatively, you can download the file from www.samsung.com.
2. Install the SAMSUNG PC Share Manager as shown in the figures below.



3. When the installation is complete, the PC Share Manager icon appears on your Desktop.
☒ Double-click the icon to run the programme.

Using the DLNA Application

The Programme Screen Layout

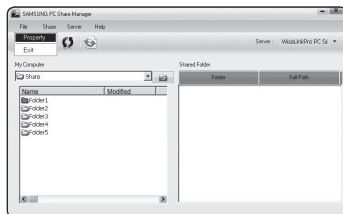


1. Menus: The following application menus are provided : **File, Share, Server, and Help.**
2. Click to share the selected PC server folder.
3. Click to cancel sharing.
4. Click to refresh the PC folder and files.
5. Click to synchronize the share status.
6. The folders and files of the PC to be shared are listed.
7. Folders shared by the user are listed.
8. PC server name shown on the device list of the Media Play: Click to change the name.

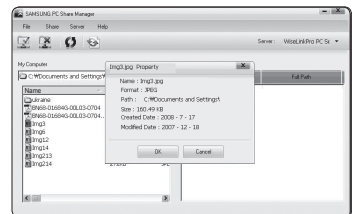
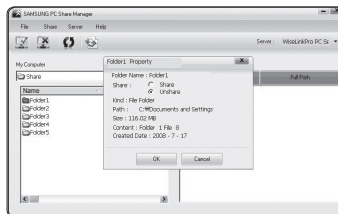
File

- **Property:** Shows information on the selected file or folder.
 - **Method 1:** Select a file or folder and select the **File** menu and then select the **Property** sub-menu.
 - **Method 2:** Select a file or folder, right-click over the selected file or folder and then select **Property** from the pop-up menu.

<Method 1>

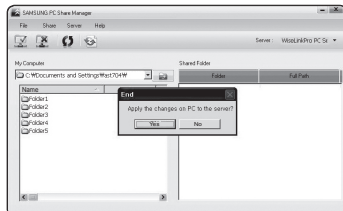


<Method 2>



- **Exit:** Exits the DLNA application.

If you select **Exit** without applying the changes after changing the shared status, a message will appear asking if you want to apply the changed settings to the PC. Select **Yes** to apply the changes and exit the application.



Continued...

❑ Share

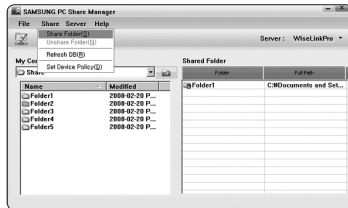
■ Sharing a Folder

You can share a folder from your PC to the TV. The maximum number of folders that can be shared is 32.

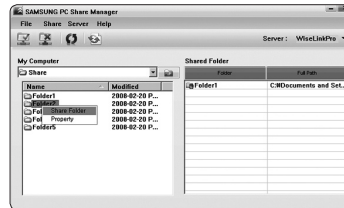
☑ Your PC will operate as a server to the TV.

- **Method 1:** Select a folder in **My Computer**, select the **Share** menu and then select the **Share Folder** sub-menu.
- **Method 2:** Select a folder in **My Computer**, right-click over the selected folder and then select **Share Folder** from the pop-up menu.
- **Method 3:** Locate the mouse pointer over a folder in the **My Computer** folder list in the left pane and drag&drop the folder into the Shared Folders pane. If a message appears asking you to confirm the shared folder, select **Yes**.

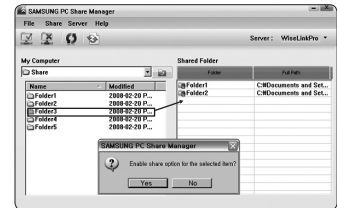
<Method 1>



<Method 2>



<Method 3>

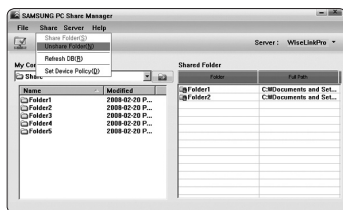


■ Cancelling a Shared Folder

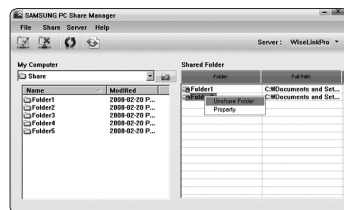
You can cancel a shared folder on your PC. Select a folder from the **Shared Folder** pane and select **Unshare Folder**.

- **Method 1:** Select a folder from the **Shared Folder** pane, select the **Share** menu and then select **Unshare Folder**.
- **Method 2:** Select a folder from the **Shared Folder** pane, right-click over the selected folder and then select **Unshare Folder** from the pop-up menu.
- **Method 3:** Locate the mouse pointer over a folder in the **Shared Folder** pane and drag&drop the folder into the **My Computer** pane. If a message appears asking you to confirm the cancelation, select **Yes**.

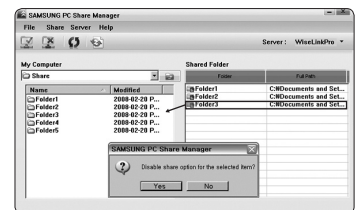
<Method 1>



<Method 2>



<Method 3>



■ Applying the Current Settings

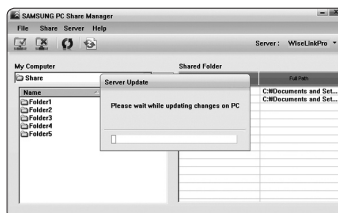
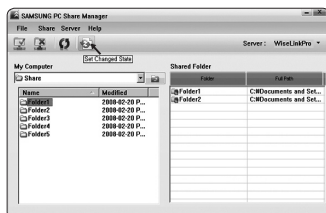
Perform this when synchronization is necessary due to a new shared folder or canceling a shared folder. The **Set Changed State** menu applies changes to shared folders to the data saved with the PC share programme.

Since applying changes to the internal data is a time-consuming process, this function enables users to apply changes to the data only when required.

Until the **Set Changed State** menu is selected, the changed state of the shared folder is not applied to the server.

Changes to the shared folders are not applied to your PC until you select the **Set Changed State** menu.

- **Method 1:** Select the **Share** menu and select the **Refresh DB** sub-menu.
- **Method 2:** Click the **Set Changed State** icon.

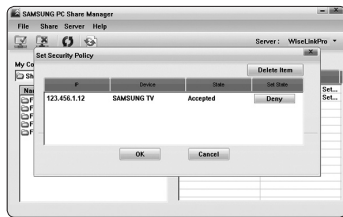


Continued...

■ Setting the Access Permission

To enable the TV to find your PC, the TV must be set to **Set Device Policy** in the Access Permission Settings window. In addition, the PC server and the TV must be on the same subnet.

- **Method:** Select the **Share** menu and select **Set Device Policy**. Rejected items are represented in gray. You can change the access permissions by using the Allow **Accept / Deny** button. To delete an item, select the item and select **Delete Item**.



□ Server

■ Server

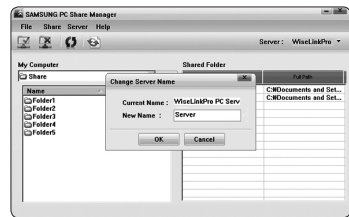
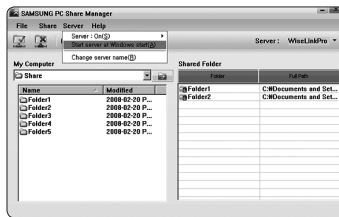
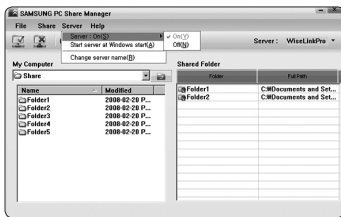
You can run or stop using your PC as a server.

■ Start Server at Windows start

You can determine whether to start the PC server automatically when Windows starts.

■ Change server name

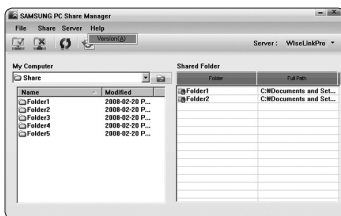
You can rename the PC server. Enter a new name and click **OK**. The new name will appear at the top right of the window and will appear on the TV.



□ Help

■ Version

The programme version information message box appears.



Using the DLNA Function

Using the DLNA Menu

DLNA (Digital Living Network Alliance) enables content saved on a DLNA server (usually your PC) connected to your TV or over a network to be played.

Media Play enables playing content saved on a USB memory device connected to the TV, while DLNA enables playing content saved on a DLNA server (your PC) connected to your TV or over the network. The procedures to use the content are the same as those for Media Play.

If you install the PC share manager programme supplied with the TV onto a PC, you can have the PC perform the role of a DLNA server over the network.

1. Press the **MEDIA.P** button on the remote control to display the **DLNA** menu.
 2. Press the ◀ or ▶ button to select an icon (**Photo**, **Music**, **Movie**, **Setup**), then press the **ENTER**  button.
- ☒ To exit **DLNA** mode, press the **MEDIA.P** button on the remote control.



☐ Photo

■ Photo List Tools menu

Slide Show / Copy / Play Current Group / Change Group / Copy Current Group / Information

■ Slide Show Tools menu

Stop Slide Show & Start Slide Show / Slide Show Speed / Slide Show Effect / Zoom / Rotate / Picture Setting / Sound Setting / Information

☐ Music

■ Music List Tools menu

Play Current Group / Copy / Change Group / Information

■ Music Play Tools Menu

Repeat Mode / Picture Setting / Sound Setting / Information

☐ Movie

■ Movie List Tools menu

Play Current Group / Copy / Copy Current Group / Information

■ Movie Play Tools Menu

Picture Setting / Sound Setting / Picture Size / Caption / Information

☐ Setup

Use Colour View / Music Repeat Mode / Cont. movie play help / Get the DivX® VOD registration code / Get the DivX® VOD deactivation code / Screen Saver Run Time / Information

☒ DLNA does not support the following functions.

- The Background Music and Background Music Setting functions.
- Sorting files by preference in the Photo, Music, and Movie folders.
- The Change Group function.
- The Safe Remove function.
- The  (REW) /  (FF) button functions while a movie is playing.

☒ The Skip (◀/▶ button) or Pause function may not work while a movie is playing for the DLNA of other manufacturers, depending on the corresponding content information.

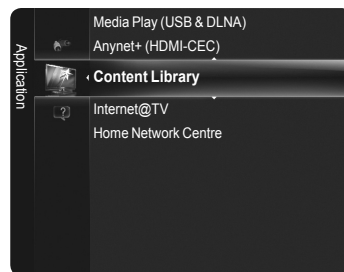
☒ The playing time may not be displayed while a movie is playing.

Content Library

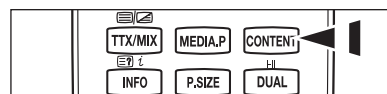
Activating the Content Library

The Content Library enables you to view or play the built-in contents on the TV or stored on your USB device. The Delete, Move and Update functions will not work with the built-in content on the TV.

1. Press the **MENU** button. Press the **▲** or **▼** button to select **Application**, then press the **ENTER** button.
2. Press the **▲** or **▼** button to select **Content Library**, then press the **ENTER** button. The **Content Library** main menu is displayed.

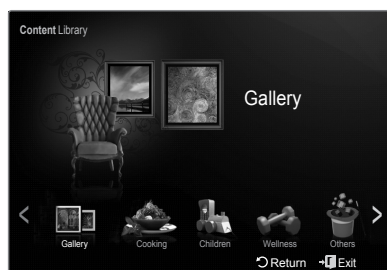


- Press the **CONTENT** button on the remote control to display the **Content Library** main menu.



3. Press the **◀** or **▶** button to select an icon (**Gallery**, **Cooking**, **Children**, **Wellness**, **Others**, **Content Management**), then press the **ENTER** button.

- The selected item will be run.



Using the Remote Control Button in Content Library Menu

Button	Operations
▲/▼/◀/▶	Move the cursor and select an item.
ENTER	Select the currently selected item.
RETURN	Return to the previous menu.
EXIT	Stop the current function and return to the Content Library main menu.
P (Up/Down)	Stop Content Library mode and Returns to TV mode.
Volume (+/-)	You can control the volume of the played content.
CONTENT	Exit Content Library mode.

- If you press the Volume or **MUTE** button, no OSD is displayed, but the function operates accordingly.
- To return to TV mode, press the **P** (Up/Down) button on the remote control.

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Using the Content Library

□ Gallery

This function plays a Slide Show with high resolution images and background music and produces various atmospheres. Using the Gallery function of the TV, you can change your home atmosphere.

- ☑ Press **INFO** button to see the credit and detail information in English for the imagery.
Press **INFO** button again or press ► button for the credit information to go away (currently, the credit supports English only).
- ☑ The copyrights of the **Gallery** contents and all issues related to them are reserved by Gallery Player, Inc.
- ☑ For additional **Gallery** contents, check for information through www.samsung.com. Please refer to the **Using Additional Content Using External USB Memory Storage** section to see how to play additional imagery.

□ Cooking

You can view various recipes that you can then easily follow step by step. Enjoy these contents which give you great ideas for meals.

- ☑ The recipes introduced in the **Cooking** contents on the Samsung TV are based on recipes published by Anness Publishing.
- ☑ The copyrights of the **Cooking** contents and all issues related to them are reserved by Practical Pictures.

□ Children

This is educational and interactive content that children can watch repeatedly. Enjoy existing stories, songs and plays with the Boowa and Kwala characters.

- ☑ The copyrights of the **Children** contents and issues related to them are reserved by UpToTen.

□ Wellness

This is beneficial health management content that provides stretching and massage exercises that can be enjoyed by the whole family.

- ☑ The copyrights to the **Relaxing sound** content are reserved by Practical Pictures. All issues related to copyrights are reserved by the corresponding company.

□ Others

The default content is not saved in the TV memory.

- ☑ You can copy new content to the TV memory using the **Content Management** screen.

□ Content Management

You can download contents onto a USB memory and play them on your TV.

■ My contents

The use of contents is the same as in using the TV memory contents. Also, you can delete and play the each contents.

■ USB

You can download the contents onto a USB memory device and play them on your TV. (The contents on the external USB device are played directly without being copied to the built-in Flash memory of the TV.)

- ☑ **Content Library** only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
- ☑ Playing a game using an external USB memory device will allow you to save your game (depending on the game). Take care as removing the USB memory device while saving data to the USB memory device may cause the data to be lost.
- ☑ **Downloading New Contents**
New content other than the built in content will be provided via the the Samsung.com website free of charge.
When you download the paid contents, you need UDN number to download contents.
Check the UDN number before downloading a new content item.
 1. Visit the www.samsung.com website
 2. Select a content item in the Contents Download page.
 3. Download the contents onto the USB memory device.
 4. Go to Content Library main menu by pressing **CONTENT** button or choosing Content Library (Menu → **Application** → **Content Library**)
 5. Plug the USB memory into USB port on the side of the TV.
 6. You can see the content sub item which you downloaded.
 7. Select a content item and press the enter button.
 8. You can play the selected content item or copy it to the TV memory.

■ Setup

- **Screen Saver Run Time** → **10 min. / 20 min. / 40 min. / 1 hour**
Select to set the waiting time before the screen saver appears.
- **Save UDN** (Unique Device Number)
The 18-digit number on the screen is the product code.
You can save the UDN to your USB memory.

Network

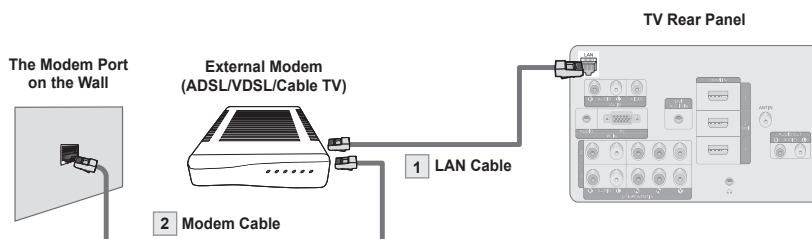
Network Connection

□ Network Connection - Cable

■ LAN Connection for a DHCP Environment

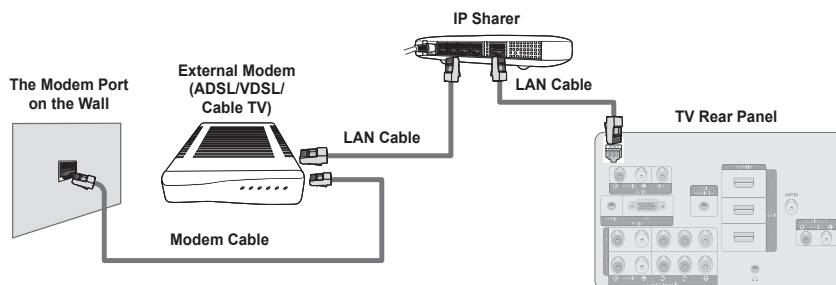
The procedures to set up the network using Dynamic Host Configuration Protocol (DHCP) are described below.

Since an IP address, subnet mask, gateway, and DNS are automatically allocated when DHCP is selected, you do not have to enter them manually.



1. Connect the LAN port on the rear panel of the TV and the external modem with a LAN Cable.
2. Connect the LAN port on the wall and the external modem with a Modem Cable.

You can connect the LAN via a Sharer (Router).



You can connect the LAN port and the TV directly depending on your network status.

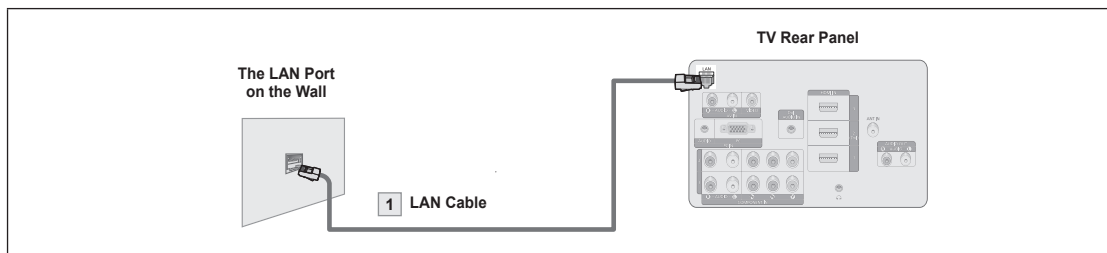


- ☑ The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- ☑ If the IP address allocation by the DHCP server has failed, turn the external modem off, turn it on again after at least 10 seconds and then try again.
- ☑ For the connections between the external modem and the Sharer (Router), refer to the owner's manual of the corresponding product.
- ☑ You can connect the TV to the LAN directly without connecting it through a Sharer (Router).
- ☑ You cannot use a manual-connection-type ADSL modem because it does not support DHCP. You have to use an automatic-connection-type ADSL modem.

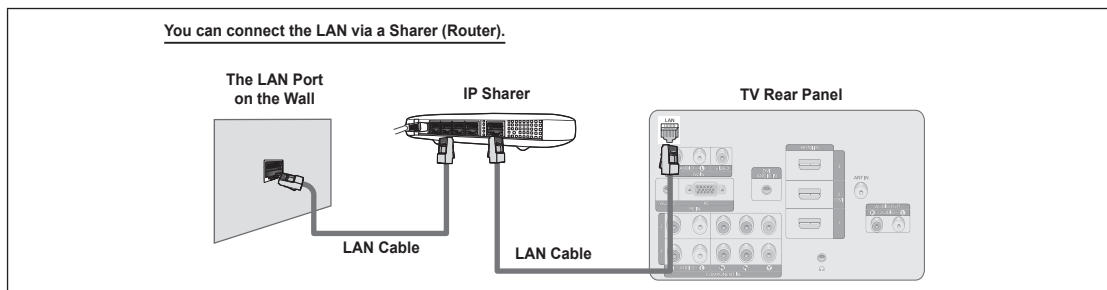
Continued...

■ LAN Connection for Static IP Environment

The procedures to set up the network using a static IP address are described below. You have to manually enter the IP address, subnet mask, gateway, and DNS that are provided by your Internet Service Provider (ISP).



1. Connect the [LAN] port on the rear panel of the TV and the LAN port on the wall using the LAN cable.



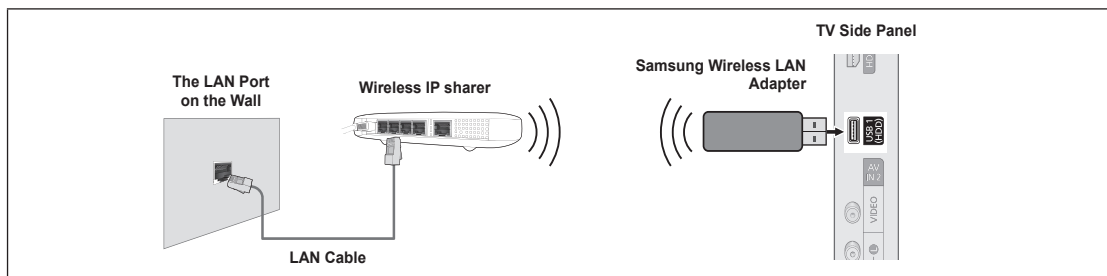
You can connect the LAN via a Sharer (Router).

- ☑ The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- ☑ If you are using a static IP address, your ISP will inform you of the IP address, subnet mask, gateway, and DNS. You must enter these values to complete the network settings. If you do not know the values, ask your network administrator.
- ☑ For the information on how to configure and connect a Sharer (Router), refer to the owner's manual for the corresponding product.
- ☑ You can connect the TV to the LAN directly without connecting it through a Sharer (Router).
- ☑ If you use an IP Sharer (IP Router) that supports DHCP, you can set up the device as either DHCP or static IP.
- ☑ For the procedures to use a static IP address, ask your Internet Service Provider.

Continued...

❑ Network Connection - Wireless

You can connect to the network wirelessly through a wireless IP sharer.



1. Connect the 'Samsung Wireless LAN Adapter' into the **USB1(HDD)** or **USB2** terminal of the TV.
- ☑ You must use the 'Samsung Wireless LAN Adapter' to use a wireless network.
- ☑ Samsung's Wireless LAN adapter is sold separately. The WIS09ABGN Wireless LAN adapter is offered by select retailers, Ecommerce sites and Samsungparts.com.
- ☑ To use a wireless network, your TV must be connected to a wireless IP sharer. If the wireless IP sharer supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.
- ☑ Samsung's Wireless LAN adapter supports IEEE 802.11A, IEEE 802.11B, IEEE 802.11G, IEEE 802.11N. When you play DLNA video over IEEE 802.11B/G connection, the video may not be played smoothly.
- ☑ If the wireless IP sharer allows you to turn the Ping connection function on/off, turn it on.
- ☑ Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communications may fail.
- ☑ If you apply a security system other than the systems listed below, it will not work with the TV.
 - When applying the security key for the AP (wireless IP sharer), only the following is supported.
 - 1) Authentication Mode : OPEN, SHARED, WPAPSK, WPA2PSK
 - 2) Encryption Type : WEP, TKIP, AES
 - When applying the security key for the Ad-hoc mode, only the following is supported.
 - 1) Authentication Mode : SHARED, WPANONE
 - 2) Encryption Type : WEP, TKIP, AES
- ☑ If your AP supports WPS(Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- ☑ If the device isn't certified, it may not connect to the TV via the 'Samsung Wireless LAN Adapter'.

Network Setup

❑ Network Type

Select Cable or Wireless as the method to connect to the network.

☒ The menu is activated only if the 'Samsung Wireless LAN Adapter' is connected.

- **Cable:** Connect to network using a cable.
- **Wireless:** Connect to network wirelessly.

❑ Network Setup

■ Cable Network Setup

(when **Network Type** is set to **Cable**)

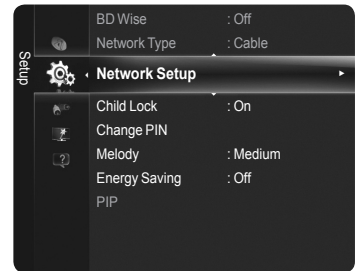
- **Internet Protocol Setup** → **Auto / Manual**
- **Network Test:** You can test or confirm the network connection status after setting up the network.

☒ When unable to connect to a wired network

If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If your Internet service provider requires an ID or password to connect to the Internet (network), your TV may not be able to connect to the Internet. In this case, you have to enter your ID or password when connecting to the Internet using an Internet Sharer (Router).

The internet connection may fail due to a firewall problem. In this case, contact your Internet service provider. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact a Samsung Electronics.



❑ Cable Network Setup

■ Cable Network Setup-Auto Setup

If you connect the LAN cable and it supports DHCP, the Internet Protocol (IP) Settings are automatically configured. (See page 45)

1. Set **Network Type** to **Cable**.
2. Select **Cable Network Setup**.
3. Set **Internet Protocol Setup** to **Auto**.
 - ☒ The Internet Protocol is set automatically.
4. Select **Network Test** to check the network connectivity.

■ Cable Network Setup-Manual Setup

To connect the TV to the LAN using a static IP address, you must set up the Internet Protocol (IP).

☒ Please check if the LAN cable is connected. (See page 45)

1. Set **Network Type** to **Cable**.
2. Select **Cable Network Setup**.
3. Set **Internet Protocol Setup** to **Manual**.
4. Set up **IP Address, Subnet Mask, Gateway** and **DNS Server**.
 - ☒ Press the number buttons on the remote control when you set the Network manually.
5. Select **Network Test** to check the network connectivity.

❑ Wireless Network Setup

☒ The menu is activated only if the 'Samsung Wireless LAN Adapter' is connected. (See page 50)

- **Internet Protocol Setup** → **Auto / Manual**
- **Network Test:** You can test or confirm the network connection status after setting up the network.

☒ When unable to connect to an AP

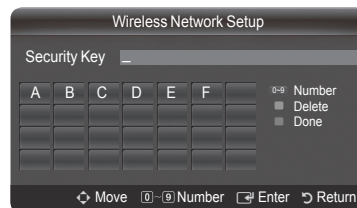
Your TV may fail to locate an AP that is configured as a private SSID type. In this case, please change the AP settings and try again. If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact a Samsung Electronics.

Continued...

■ Select a network

- Access Point: You can select the IP sharer to use when using a wireless network.
- ☑ If a wireless network is not in the Select a network list, press the Red button.
- ☑ When the connection is made, you will be returned to the screen automatically.
- ☑ If you have selected an Access Point with a security authentication:
The Security Key input screen appears. Enter the security key and press the Blue button on the remote control.
- ☑ If security encryption type is WEP, 0~9, A~F will be available when you input security key.



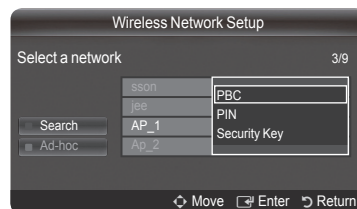
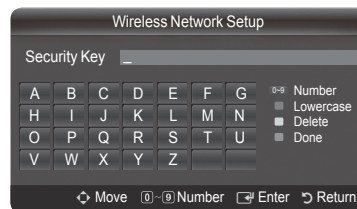
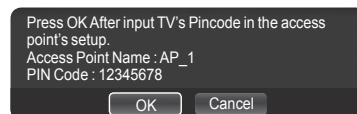
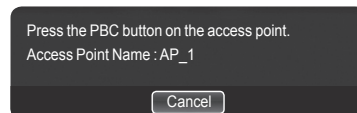
Button	Operations
▲/▼/◀/▶	Moves the selection up/down/left/right.
ENTER	Enters (Inputs) the selected character.
Red button	Switch between Upper- and Lower-Case Letters
Green button	You can delete an already entered character.
Blue button	Press this button to finish entering the security key.

□ Connecting WPS (Wi-Fi Protected Setup)

■ If Security Key is already set: In access point list, select WPS.

- ☑ You can select PBC, PIN, Security Key.

- Connecting by using PBC: Select a PBC (Push Button Configuration). Press the PBC button on the AP (access point) within 2minutes, and wait for connection.
- Connecting by using PIN: Select a PIN (Personal Identification Number).
 - ☑ The message showing the PIN Code is displayed. Input the PIN Code at AP device within 2minutes. Select OK and wait for connection.
 - ☑ Try again if connecting operation doesn't work
 - ☑ When the connection is not established although tried again, reset the access point. Please refer to a manual of each access point.
- Connecting by using Security Key: When selecting Security Key, the input window is displayed. Input the security key and press Blue button.
 - ☑ Try again if connecting operation doesn't work.



■ If Security Key is not set: When the security setting of AP that supports WPS is NONE, you can select PBC, PIN, None Security. None Security is capable of connecting to AP directly without using WPS function.

- ☑ Process of PBC, PIN is same as above. Refer to if Security Key is already set.
- ☑ Try again if connecting operation doesn't work.

Continued...

- **Ad-hoc:** You can connect to a mobile device without an access point through the 'Samsung Wireless LAN Adapter' by using a peer to peer network.

- **How to connect to new Ad-hoc**

1. Choose **Select a network**, then a device list is displayed.
2. While in the device list, press the Blue button on the remote or select **Ad-hoc**.
 - ☒ The message **The existing network system may have limited functionality. Do you want to change the network connection?** is displayed.
3. Input the generated **Network Name(SSID)** and **Security Key** into the device you want to connect.

The existing network system may have limited functionality. Do you want to change the network connection?

Yes

No

- **How to connect an existing Ad-hoc device**

1. Choose **Select a network**, the device list is displayed.
2. Select the device you want in the Device list.
3. If security key was applied, input the security key again.
 - ☒ If network doesn't operate normally, please check the **Network Name(SSID)** and **Security Key** again. If the **Security Key** is incorrect, it may be the reason for the malfunction.

- **Wireless Network Setup - Auto Setup**

If you want to connect AP, AP should support DHCP.

Only devices which support Ad-hoc mode can be connected without DHCP.

1. Set **Network Type** to **Wireless**.
2. Select **Wireless Network Setup**.
3. Set **Internet Protocol Setup** to **Auto**.
 - ☒ The Internet Protocol is set automatically.
4. Select a network through **Select a network**.
5. Select **Network Test** to check the network connectivity.

- **Wireless Network Setup - Manual Setup**

To connect the network wirelessly using a static IP address, you must set up the Internet Protocol (IP). (See page 47)

- ☒ For more detailed information of static IP address, refer to the user manual of your wireless IP sharer.

1. Set **Network Type** to **Wireless**.
2. Select **Wireless Network Setup**.
3. Set **Internet Protocol Setup** to **Manual**.
4. Set up **IP Address**, **Subnet Mask**, **Gateway** and **DNS Server**.
 - ☒ Press the number buttons on the remote control when you set the Network manually.
5. Select a network through **Select a network**.
6. Select **Network Test** to check the network connectivity.

Internet@TV

- ☑ This function may not be supported depending on your country.
- ☑ If you have some problems while using a widget service, please contact to service provider.
In the widget, press the green button and get contact information or refer to help website for service provider information.
- ☑ English may be only supported in widget service depending on region.

Getting Started with Internet@TV

Internet@TV provides SAMSUNG's widget services through a network connection. Internet@TV contents can be changed depending on contents provider. You can access various information such as YouTube, through the **Internet@TV** service.

- ☑ If a certain content's font provided by contents provider is not supported on TV, It may not be viewed normally.
- ☑ The configuration of Widgets and their provided services may differ according to the selected country. After changing country, turn off and on the TV. Then you can use widget service supported changed country. If Country is set to Others, TV can't recognize your country. In this case, please select directly from the service country list.
- ☑ For more information on how to configure your country, refer to the 'Plug & Play Feature' instructions.
- ☑ You may experience slow operation or hesitation when using this function due to network conditions.
- ☑ Before using **Internet@TV**, set up the network first. For more information on how to configure your network, refer to 'Network Setup'.

When running Internet@TV for the first time, the basic settings proceed automatically. It may take few minutes to update.

1. Press the **MENU** button. Press the **▲** or **▼** button to select **Application**, then press the **ENTER**  button.
2. Press the **▲** or **▼** button to select Internet@TV, then press the **ENTER**  button.
 - ☑ Press the **INTERNET@** button on the remote control to display the Internet@TV menu.
3. The **User Agreement** is displayed. Select **Agree** to accept the agreement.
4. The **Statistics & Analysis** is displayed. Select **Agree** to accept the agreement.



Setting up Internet@TV

You can check and use the menus regarding Single Sign On (SSO), system management and properties. Press the **▲** or **▼** button to select **Setup**, then press the **ENTER**  button.

☐ Single Sign On

You can use this menu when creating, deleting the account.

Using the **Single Sign On**, you can control your account including contents site's account information.

You don't need additional log in.

- ☑ Account is only for internet@TV.

■ Create Account

You can create account and be linked with desired service site.

- ☑ Account will be made less than 10.
- ☑ Character of Account should be limited to 10.
- ☑ If there is no service that needs log in, you can not create account.

■ Account Management

- **Service Site:** You can register log in information of service site (such as YouTube).
- **Change Password:** Change the password of your account.
- **Delete:** Delete the account.

- ☑ If you forget the password of account, press the remote control buttons in the following sequence, which resets the **Internet@TV**: **POWER** (off) →  **MUTE** → **9** → **4** → **8** → **POWER** (On).
If you use this function, all accounts will be deleted.

Continued...

❑ System Setup

☑ **Ticker Autorun**, **Ticker Duration** may not be supported depending on country.

■ Change the Service Lock password

☑ The default password number of a new TV set is '0-0-0-0'.

☑ If you forget the password, press the remote control buttons in the following sequence, which resets the password to '0-0-0-0':
POWER (Off) → **MUTE** → **8** → **2** → **4** → **POWER** (On).

■ Service Duration

Select to set the service duration time before the screen saver appears.

■ Ticker Autorun → Off / On

Select to set ticker to run automatically or not when turning on the TV.

■ Ticker Duration

Select to set the service duration time before the screen saver appears.

❑ Properties

Display information of Internet@TV.

You can measure the speed of your Internet TV service using **Measuring the speed of the Internet TV service**.

Using the Internet@TV service

In a widget that provides multiple category menus, you can view the contents of the category menus using the ◀ and ▶ buttons.

■ Account Login

1. Press the Red button.

2. Select desired **User account**, then press the **ENTER** button.

3. Input the password.

☑ When login succeeds, User account will be displayed on the screen.

☑ Before login, at least one and more account should be registered. If you want to create account, refer to 'Setting up Internet@TV'.

■ Using the Widget Gallery

You can use **Run Service**, **Lock**, **Install Service** at the existing widget and you can see description of the widget service that isn't installed.

On the **Internet@TV**, you can add and use various widgets provided by service provider. It may vary according to contents provider.

- **Run Service**: Runs the widget service.
- **Lock**: Set the service lock
- **Install Service** (or **Delete Service**): Install or delete widget service.

■ Using the YouTube Widget

You can watch the movie provided by YouTube.

If you have the account in YouTube, Register account information using Account management. Then, you can use My Favourites category.

☑ The menu can be changed by web service.

☑ There may be inappropriate contents for child. In this case, use Lock function in **Widget Gallery**.



Troubleshooting for internet@TV

Problem	Possible Solution
Some widget services do not work.	Check with that service provider. In the widget, press the green button and get contact information or refer to help website for widget service provider information. Refer to Help website page.
What is the advantage of single sign on?	If you create account and register your login information of desired service, you can access personalized content without additional login.
When a network error occurred, I can't use other menus except setting menu.	If network connection doesn't work, your service might be limited. Because all widgets except setting widget(Profile widget, Widget Gallery) need to connect internet.
Is there any possibility to show adult movies on YouTube?	Basically, at the list on the menu it is filtered out. But by using search function, It can be shown. In this case, using the Widget Gallery lock the widget service.

Help Website

Country	Website
Israel	www.samsung.com → Consumer Products → TV → medi@2.0 → Internet@TV
Iran	www.samsung.com → صفحه اول → محصولات مصرفی → medi@2.0 → Internet@TV
Saudi Arabia	www.samsung.com → Products → television → medi@2.0 → Internet@TV
UAE	www.samsung.com → Consumer → television → medi@2.0 → Internet@TV
Australia	www.samsung.com → Consumer → television → medi@2.0 → Internet@TV
China	www.samsung.com → 个人消费产品 → 电视产品 → medi@2.0 → Internet@TV
HongKong	www.samsung.com → consumer products → Televisions → medi@2.0 → Internet@TV
HongKong	www.samsung.com → 個人消費產品 → 電視 → medi@2.0 → Internet@TV
India	www.samsung.com → consumer products → television → medi@2.0 → Internet@TV
Indonesia	www.samsung.com → Produk → television → medi@2.0 → Internet@TV
Japan	www.samsung.com → 製品情報 → 液晶ディスプレイ → medi@2.0 → Internet@TV
Korea	www.samsung.com → 제품정보 → TV → medi@2.0 → Internet@TV
Malaysia	www.samsung.com → Consumer → television → medi@2.0 → Internet@TV
NewZealand	www.samsung.com → Consumerv → television → medi@2.0 → Internet@TV
Philippines	www.samsung.com → Consumer → television → medi@2.0 → Internet@TV
Singapore	www.samsung.com → Consumer → television → medi@2.0 → Internet@TV
Taiwan	www.samsung.com → 個人消費產品 → 電視 → medi@2.0 → Internet@TV
Thailand	www.samsung.com → ผลิตภัณฑ์ → โทรทัศน์ → medi@2.0 → Internet@TV
Vietnam	www.samsung.com → sản phẩm nghe nhìn → máy thu hình → medi@2.0 → Internet@TV
South Africa	www.samsung.com → Consumer → television → medi@2.0 → Internet@TV

☑ Approaching step may be changed later on.

☑ It can be different links for special countries.

Home Network Centre

Home Network Centre

About the Home Network Centre

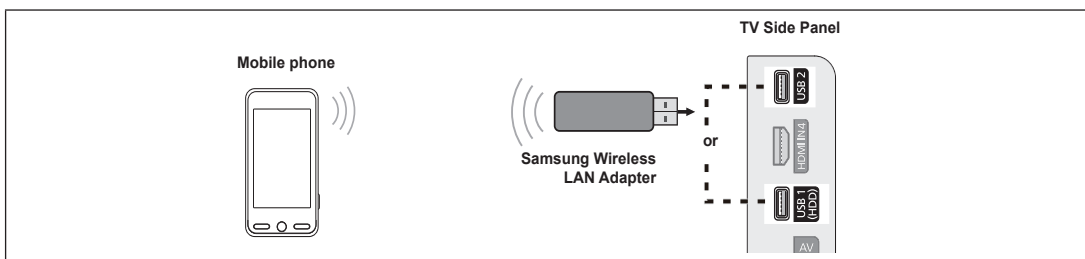
The **Home Network Centre** connects the TV and mobile phones through a network. You can view call arrivals, text message contents, and schedules set on the mobile phone on the TV using the **Home Network Centre**. In addition, you can play the media contents saved on the mobile phones such as videos, photos and music by controlling them onto the TV via the network.

- ☑ If the device supports DLNA DMC (Digital Media Controller) function, Home Network Centre function is available.
- ☑ The Samsung SCH-i900 mobile phone supports the Home Network Centre. Other models will be added in the future. The mobile device may need additional software installation. For details, refer to each user's guide.

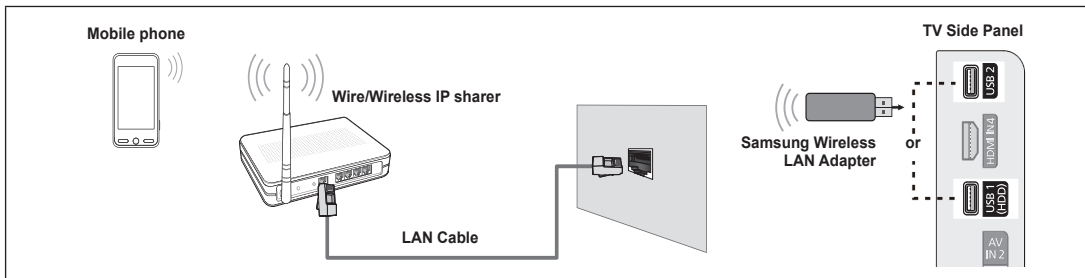
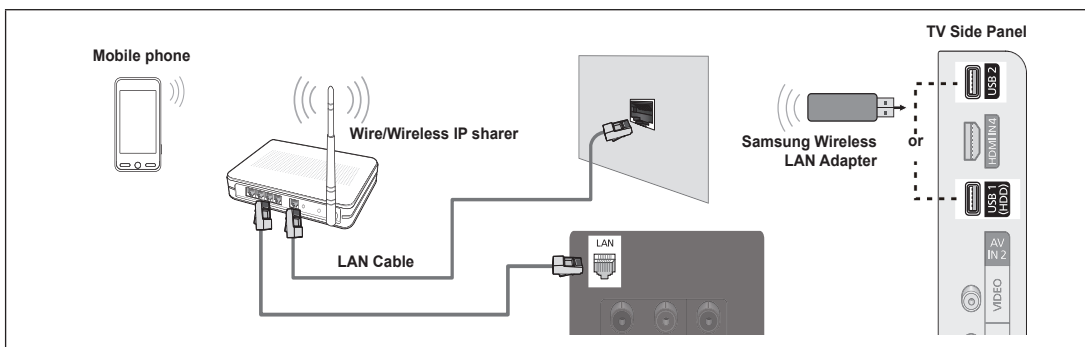
■ Connecting to the Home Network Centre

For more information about the network settings, refer to 'Network Setup'.

• Connecting to a Wi-Fi Ad-hoc network



1. Connect the 'Samsung Wireless LAN Adapter' to the USB1(HDD) or USB2 port of the TV.
 2. For more information on how to configure Ad-hoc network, refer to 'Network Setup'.
 - ☑ For information on configuring the mobile phone's network settings, refer to the mobile phone manual.
 3. Set up the IP address, SSID and password for the mobile phone in the Ad-hoc Settings of the mobile phone using the Network Name (SSID) and Security Key (password) displayed on the TV.
- **Connecting through a wire / wireless IP sharer**
1. Connect the LAN port of the TV and the Wire/Wireless IP sharer using the LAN cable or connect the USB1(HDD) or USB2 port of the TV and the 'Samsung Wireless LAN Adapter'.
 - ☑ For the procedures to set up the wire/wireless sharer and the mobile phone, refer to the manual of the corresponding device.



Setting Up the Home Network Centre

❑ Message

Shows a list of mobile phones which have been set up with this TV to use the message function (the call arrivals, text message contents and schedules set on the mobile phone).

■ Allowed

Allows the mobile phone.

■ Denied

Blocks the mobile phone.

■ Delete

Deletes the mobile phone from the list.

- ☒ This function just deletes the name from the list. If the deleted mobile device turns on or tries to connect to the TV, it may be shown on the list.

❑ Media

Shows a list of mobile phones which is available to control media contents (videos, photos, music) from the phone.

- ☒ Besides mobile phone, other mobile devices that support **DLNA DMC** are available.

■ Allowed

Allows the mobile phone.

■ Denied

Blocks the mobile phone.

■ Delete

Deletes the mobile phone from the list.

- ☒ This function just deletes the corresponding name on the list. If the deleted mobile device turns on or tries to connect to the TV, it may be shown on the list.

❑ Setup

■ Message → On / Off

You can determine whether to use the message function (the call arrivals, text message contents, and schedules set on the mobile phone).

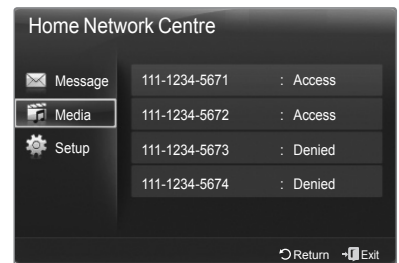
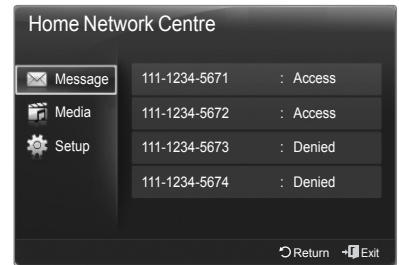
■ Media → On / Off

You can select whether to use the play function that Media the contents (videos, photos, music) from the mobile phone.

■ TV name

You can set the TV name so as to find it easily on the mobile device.

- ☒ If you selects **User Input**, you can type the TV name by OSK(On Screen Keyboard).



Using the Message Function

Using this function, you can view the call arrivals, text message contents and schedules set on the mobile phone through the alarm window while watching TV.

- ☒ To disable this **Message** alarm window, set **Message** to **Off** in **Setup** of the Home Network Centre.
- ☒ The alarm window appears for 20 seconds. If no key is pressed or if **Cancel** is selected, it appears up to three times at 5 minute intervals.
- ☒ If OK is selected, or if OK is not selected while the message is displayed three times, the message will be deleted. The message is not deleted from the mobile phone.
- ☒ The simple alarm window can be displayed, while using some applications such as Media Play, Contents Library, etc. In this case, to view the contents of the message, switch to TV viewing mode.
- ☒ When the message of an unknown mobile phone is displayed, select the mobile phone in the Message item of the Home Network Centre and select Denied to block the phone.

☐ Message View

If a new text message (**SMS**) arrives while you are watching TV, the alarm window appears. If you click the **OK** button, the contents of the message are displayed.

- If you select the **OK** button, the contents of the message are displayed.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.
- ☒ You can configure the viewing settings for the text message (SMS) contents on the mobile phone. For the procedures, refer to the mobile phone manual.
- ☒ Some special characters may be displayed as blank or broken characters.

☐ Call Arrival Alarm

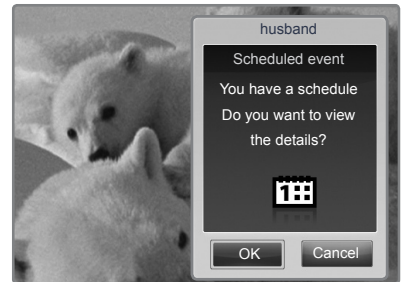
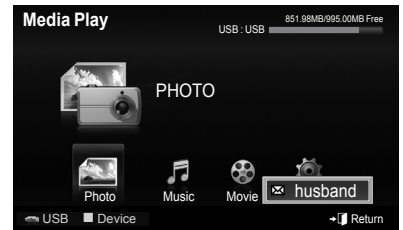
If a call arrives while you are watching TV, the alarm window appears.

- If you select the **OK** button, the call arrival alarm is confirmed and the alarm window is closed.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.

☐ Schedule Alarm

While you are watching TV, the alarm window appears to display the registered schedule.

- If you select the **OK** button, you can view the contents of the schedule registered on the mobile phone.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.
- ☒ You can configure the viewing settings for the schedule contents on the mobile phone. For the procedures, refer to the mobile phone manual.
- ☒ Some special characters may be displayed as blank or broken characters.



Using the Media Function

An alarm window appears informing the user that the media contents (videos, photos, music) sent from the mobile phone will be displayed on the TV.

The contents are played automatically 3 seconds after the alarm window appears.

If you press the **RETURN** or **EXIT** button when the alarm window appears, the **Media Contents** are not played.

- ☑ To turn off the media contents transmission from the mobile phone, set **Media** to **Off** in **Setup** of the **Home Network Centre**.
- ☑ The contents may not be played on the TV depending on their resolution and format.

☐ Media play control buttons

Button	Operations
◀/▶	• Move the cursor and select an item. • While playing a movie file: skip forwards or backwards through the movie file.
(ENTER )	• Pressing the ENTER button during play pauses the play. • Pressing the ENTER button during pause resumes the play.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
INFO	Show file information.
EXIT	Stop Media Play mode and Returns to TV mode.

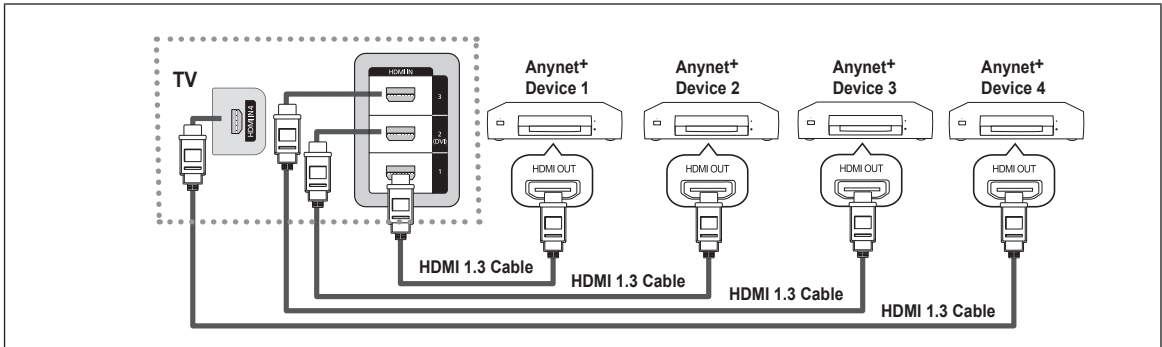
- ☑ The **ENTER** and **◀/▶** buttons may not work depending on the type of media content.
- ☑ Using the mobile device, you can control playing media. For details, refer to each user's guide.

About Anynet+

Connecting Anynet+ Devices

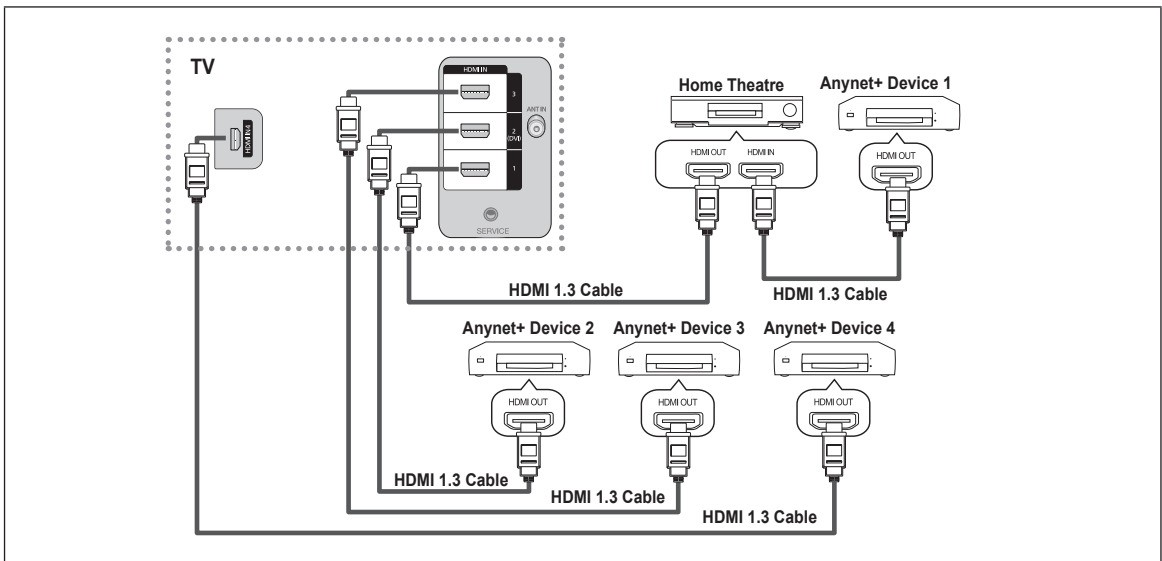
The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

☐ To connect to a TV



1. Connect the [HDMI IN 1], [HDMI IN 2(DVI)], [HDMI IN 3], or [HDMI IN 4] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

☐ To connect to Home Theater



1. Connect the [HDMI IN 1], [HDMI IN 2(DVI)], [HDMI IN 3], or [HDMI IN 4] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
2. Connect the HDMI IN jack of the home theater and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

- ☒ Connect only one Home Theater.
- ☒ You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
- ☒ Anynet+ works up the AV device supporting Anynet+ is in the Standby or On status.
- ☒ Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Setting Up Anynet+

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote.

- ✎ Press the **TOOLS** button to display **Tools** menu.
You can also display Anynet+ menu by selecting **Tools** → **Anynet+(HDMI-CEC)**.

□ Setup

You can set the environment for using Anynet+.

■ Anynet+(HDMI-CEC) → Off / On

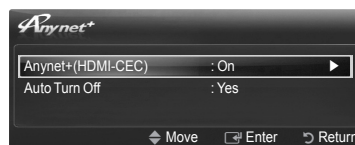
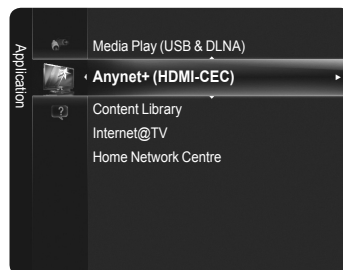
To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.

- ☑ When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

■ Auto Turn Off → No / Yes

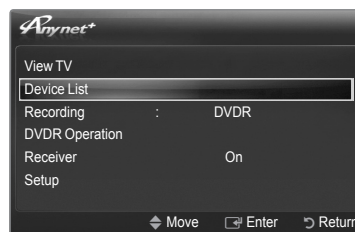
Setting an Anynet+ Device to turn Off Automatically when the TV is Turned Off

- ☑ The active source on the TV remote must be set to TV to use the Anynet+ function.
- ☑ If you set **Auto Turn Off** to **Yes**, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.



Scanning and Switching between Anynet+ Devices

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
 2. Press the **▲** or **▼** button to select **Device List**, then press the **ENTER** button.
 - ☑ Anynet+ devices connected to the TV are listed.
 - ☑ If you cannot find a device you want, press the red button to scan for devices.
 3. Press the **▲** or **▼** button to select to a particular device and press the **ENTER** button. It is switched to the selected device.
 - ☑ Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **Application** menu, the **Device List** menu appears.
- ☑ Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
 - ☑ The time required to scan for devices is determined by the number of connected devices.
 - ☑ When the device scan is complete, the number of devices found are not displayed.
 - ☑ Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV when the TV is on or under some conditions are not automatically displayed in the device list. Press the red button to search for the connected device.
 - ☑ If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **TOOLS** button.



Continued...

❑ Anynet+ Menu

The **Anynet+** menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Anynet+ mode changes to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) Menu	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) Operation	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
Recording: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
(*recorder) Reserve Recording	Enables reserving a recording for the recorder. (This is only available for devices that support the recording reservation function.)
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.

❑ TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◀/▶/ENTER buttons Colour buttons / EXIT button
	After switching to the device, while playing a file	◀◀ (Backward search) / ▶▶ (Forward search) / ■ (Stop) / ▶ (Play) / ⏸ (Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV programme	P ◀▶ button
Audio Device	When Receiver is activated	🔊 / 🔇 button MUTE button

- ☑ The Anynet+ function only works when the active source on the TV remote control is set to TV.
- ☑ The ◀▶ button works only while in the recordable state.
- ☑ You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.
- ☑ The TV remote control may not work under certain conditions. In this case, reselect the Anynet+ device.
- ☑ The Anynet+ functions do not operate with other manufacturers' products.
- ☑ In Anynet+ mode, the colour buttons may not work properly.
- ☑ The ◀◀, ▶▶ operations may differ depending on the device.

Recording

You can make a recording of a TV programme using a Samsung recorder.

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Recording: (device_name)**, then press the **ENTER** button. Recording begins.

☑ When there is more than one recording device

When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select a recording device and press the **ENTER** button. Recording begins.

☑ When the recording device is not displayed

Select **Device List** and press the red button to search devices.

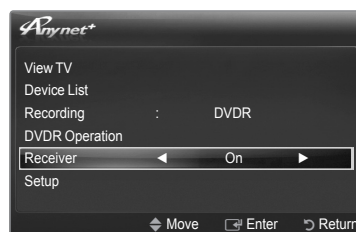
- ☑ You can record the source streams by selecting **Recording: (device_name)**.
- ☑ Pressing the ▶ button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
- ☑ Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.



Listening through a Receiver (Home theater)

You can listen to sound through a receiver instead of the TV speaker.

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
 2. Press the **▲** or **▼** button to select **Receiver**. Press the **◀** or **▶** button to select **On** or **Off**.
- ☑ If your receiver supports audio only, it may not appear in the device list.
 - ☑ When listening through the receiver, there are restrictions for using the PIP and audio-related (MTS, Preferred language) menus.
 - ☑ When using the Media Play feature, sound may not output properly through the receiver.
 - ☑ If there is a power interruption to the TV when the **Receiver** is set to **On** (by disconnecting the power cord or a power failure), the **Speaker Select** may be set to **External Speaker** when you turn the TV on again.



Troubleshooting for Anynet+

Symptom	Solution
Anynet+ does not work.	• Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. • Connect only one receiver (home theater). • Check if the Anynet+ device power cord is properly connected. • Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections. • Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. • Check whether the TV remote control is in TV mode. • Check whether it is Anynet+ exclusive remote control. • Anynet+ doesn't work in certain situations. (Searching channels, Operating Media Play, Plug & Play, etc.) • When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again. • Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	• Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. • Press the TV button on the TV remote control to switch to TV. Then press the TOOLS button to show the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	• Select View TV in the Anynet+ menu. • Press the SOURCE button on the TV remote control and select a device other than Anynet+ devices. • (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The message Connecting to Anynet+ device... appears on the screen.	• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. • Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	• You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	• Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI 1.3 cable is properly connected. • Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. • Search Anynet+ devices again. • You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions. • If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	• Check whether the antenna jack on the recording device is properly connected.

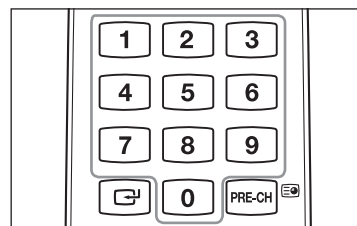
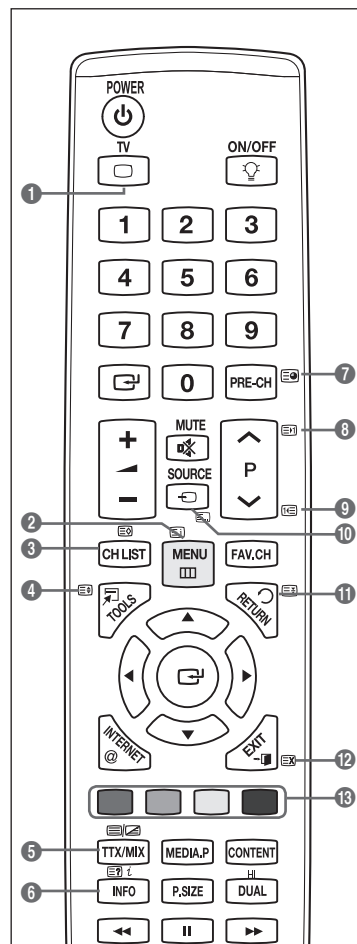
Recommendations for Use

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

☑ For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

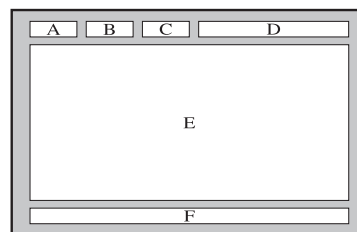
- 1 **(exit)**
Exit from the teletext display.
 - 2 **(index)**
Used to display the index (contents) page at any time while you are viewing teletext.
 - 3 **(store)**
Used to store the teletext pages.
 - 4 **(size)**
Press to display the double-size letters in the upper half of the screen.
For lower half of the screen, press it again. To display normal screen, press it once again.
 - 5 **(teletext on/mix)**
Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.
 - 6 **(reveal)**
Used to display the hidden text (answers to quiz games, for example).
To display normal screen, press it again.
 - 7 **(sub-page)**
Used to display the available sub-page.
 - 8 **(page up)**
Used to display the next teletext page.
 - 9 **(page down)**
Used to display the previous teletext page.
 - 10 **(mode)**
Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the (store) button.
 - 11 **(hold)**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.
 - 12 **(cancel)**
Used to display the broadcast when searching for a page.
 - 13 **Colour buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.
- ☑ You can change teletext pages by pressing the numeric buttons on the remote control.



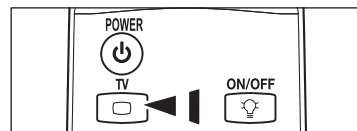
Continued...

The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.



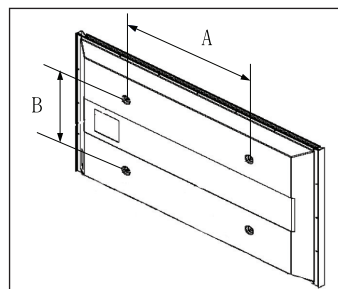
- ☑ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - Entering the page number
 - Selecting a title in a list
 - Selecting a coloured heading (FASTEXT system)
- ☑ Press the **TV** button to exit from the teletext display.



Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
 When attaching to other building materials, please contact your nearest dealer.
 If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	19" ~22"	100 * 100	M4	4
	23"~29"	200 * 100		
	30"~40"	200 * 200	M6	
	46"~55"	400 * 400	M8	
	57"~70"	800 * 400		
	80" ~	1400 * 800		
PDP-TV	42"~ 50"	400 * 400	M8	4
	58"~ 63"	600 * 400		
	70" ~	800 * 400		
	80" ~	1400 * 800		



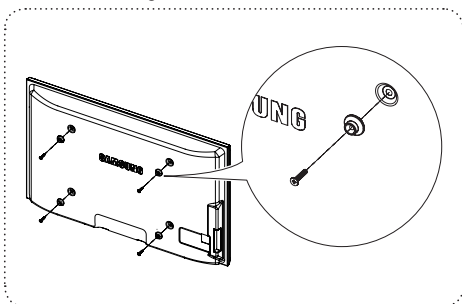
- ☑ We provided the standard dimensions for wall mount kits as shown in the table above.
- ☑ When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- ☑ Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- ☑ For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- ☑ Do not use screws that do not comply with the VESA standard screw specifications.
Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury.
Samsung is not liable for these kinds of accidents.
- ☑ Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- ☑ Our 57" and 63" models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- ☑ Do not exceed 15 degrees tilt when mounting this TV.



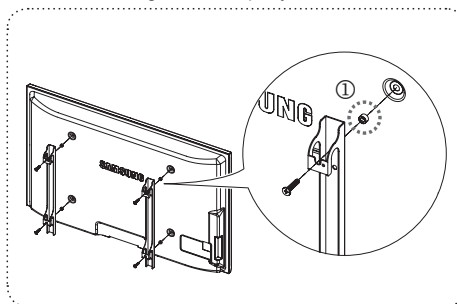
Do not install your Wall Mount Kit while your TV is turned on.
 It may result in personal injury due to electric shock.

Preparing before installing Wall- Mount on the wall

Case A. Installing SAMSUNG Wall-Mount



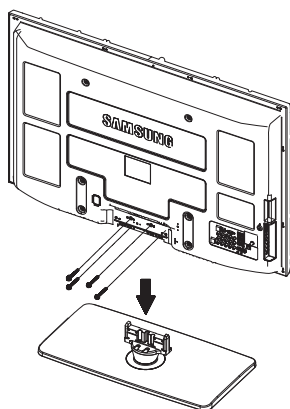
Case B. Installing other company's Wall-Mount



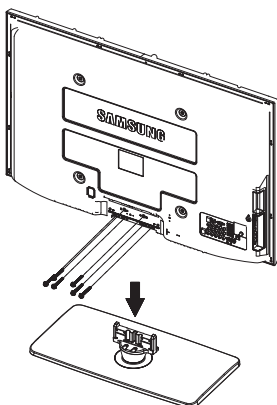
1. Install Wall Mount with the torque range of 15kgf·cm or less. Make sure that parts can be damaged if the torque is out of the specified range.
2. Accessory Kit contains Holder-Ring [①] for installing other company's Wall-Mount on Samsung TV. (Case B)

How to attach the Stand-Base

Using the screws for securing the stand base and the TV, firmly attach the TV to the stand base.
(The exterior of the set may be different from the picture.)

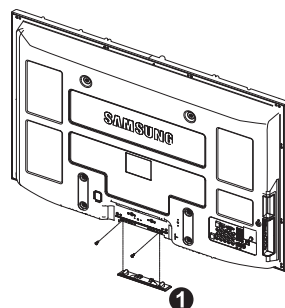


(PS50B650)



(PS58B680/PS63B680)

When mounting your TV on a wall, install the cover (①) on the stand-base using two screws.



Warning

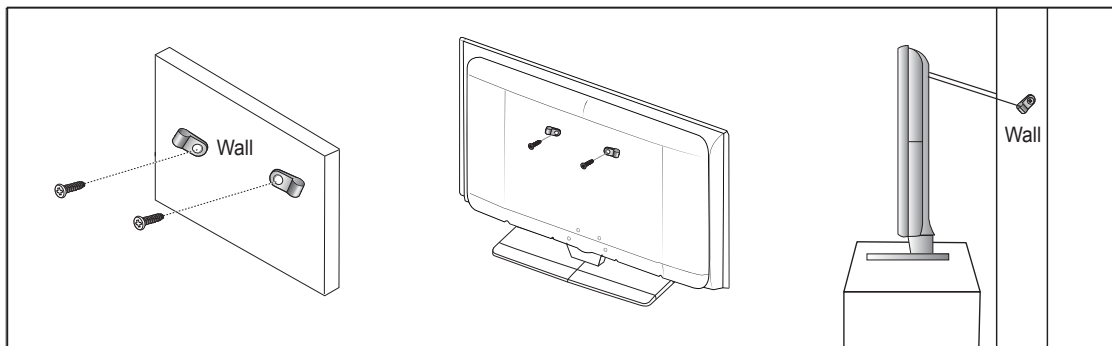
Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

- ☑ Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

Securing the TV to the Wall



Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.



To avoid the TV from falling

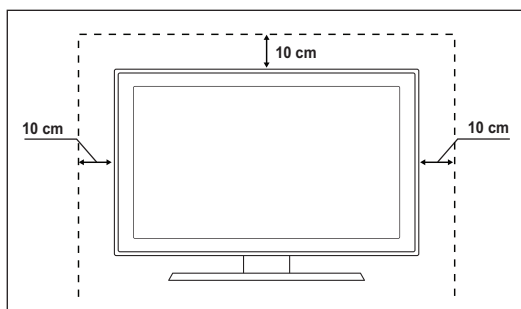
1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
 - ☑ You may need additional material such as an anchor depending on the type of wall.
 - ☑ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
2. Remove the screws from the center back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
 - ☑ Screws may not be supplied with the product.
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
 - ☑ Install the TV near to the wall so that it does not fall backwards.
 - ☑ It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
 - ☑ Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

Securing the Installation Space

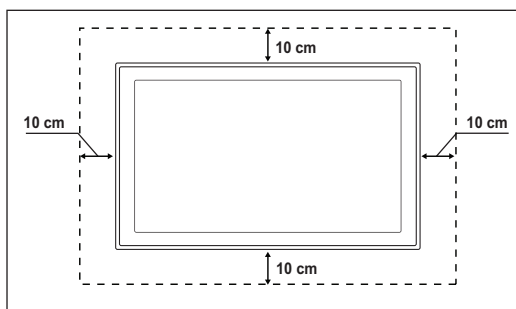
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product. Install the product so the required distances shown in the figure are kept.

- ☑ When using a stand or wall-mount, use parts provided by Samsung Electronics only.
 - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
 - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- ☑ The appearance may differ depending on the product.

■ When installing the product with a stand



■ When installing the product with a wall-mount



Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	• Check that the mains lead has been connected to a wall socket. • Check that you have pressed the button on your set. • Check the picture contrast and brightness settings. • Check the volume. • Check if Speaker Select is set to External Speaker.
Normal picture but no sound	• Check the volume. • Check whether the MUTE button has been pressed on the remote control.
No picture or black and white picture	• Adjust the colour settings. • Check that the broadcast system selected is correct.
Sound and picture interference	• Try to identify the electrical appliance that is affecting the television, then move it further away. • Plug the television into a different main socket.
Blurred or snowy picture, distorted sound	• Check the direction, location and connections of your aerial. • This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	• Replace the remote control batteries. • Clean the upper edge of the remote control (transmission window). • Check that the + and – ends of the batteries are inserted correctly. • Check that the batteries are drained.
Screen is black and power indicator light blinks steadily	• On your computer check; Power, Signal Cable. • Move the computer's mouse or press any key on the keyboard. • On your equipment check (STB, DVD, etc) ; Power, Signal Cable. • The TV is using its power management system. • Press the Source button on the panel or remote control. • Turn the TV off and on.
The damaged picture appears in the corner of the screen.	• If Screen Fit is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The "Resets all settings to the default values" message appears.	• This appears when you press and hold the EXIT button for a while. The product settings are reset to the factory defaults.

Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	PS50B650	PS58B680	PS63B680
Screen Size (Diagonal)	50 inch	58 inch	63 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10 W x 2	15 W x 2	15 W x 2
Dimension (WxHxD)			
Body	1231 x 756 x 74 mm	1401.3 x 847.9 x 74 mm	1531 x 932 x 74 mm
With stand	1231 x 817 x 290 mm	1401.3 x 916.5 x 335 mm	1531 x 992.5 x 390 mm
Weight			
Body	33.2 kg	38.9 kg	52.9 kg
With stand	38.2 kg	45.8 kg	60.6 kg
Environmental Considerations			
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)	50 °F to 104 °F (10 °C to 40 °C)	50 °F to 104 °F (10 °C to 40 °C)
Operating Humidity	10% to 80%, non-condensing	10% to 80%, non-condensing	10% to 80%, non-condensing
Storage Temperature	-4 °F to 113 °F (-20 °C to 45 °C)	-4 °F to 113 °F (-20 °C to 45 °C)	-4 °F to 113 °F (-20 °C to 45 °C)
Storage Humidity	5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing

- ☑ This device is a Class B digital apparatus.
- ☑ Design and specifications are subject to change without prior notice.
- ☑ For the power supply and Power Consumption, refer to the label attached to the product.



Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
AUSTRALIA	1300 362 603	www.samsung.com/au
CHINA	800-810-5858 400-810-5858 010-6475 1880	www.samsung.com/cn
	HONG KONG : 3698-4698	www.samsung.com/hk
INDIA	3030 8282 1800 110011 1800 3000 8282	www.samsung.com/in
INDONESIA	0800-112-8888	www.samsung.com/id
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